

THE AMERICAN PSYCHOLOGIST



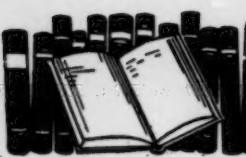
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—Ralph R. Wolf, from a
Review in CONTEMPORARY PSYCHOLOGY
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THE AMERICAN PSYCHOLOGIST

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THE NATURE OF LOVE¹

HARRY F. HARLOW

University of Wisconsin

Love is a wondrous state, deep, tender, and rewarding. Because of its intimate and personal nature it is regarded by some as an improper topic for experimental research. But, whatever our personal feelings may be, our assigned mission as psychologists is to analyze all facets of human and animal behavior into their component variables. So far as love or affection is concerned, psychologists have failed in this mission. The little we know about love does not transcend simple observation, and the little we write about it has been written better by poets and novelists. But of greater concern is the fact that psychologists tend to give progressively less attention to a motive which pervades our entire lives. Psychologists, at least psychologists who write textbooks, not only show no interest in the origin and development of love or affection, but they seem to be unaware of its very existence.

The apparent repression of love by modern psychologists stands in sharp contrast with the attitude taken by many famous and normal people. The word "love" has the highest reference frequency of any word cited in Bartlett's book of *Familiar Quotations*. It would appear that this emotion has long had a vast interest and fascination for human beings, regardless of the attitude taken by psychologists; but the quotations cited, even by famous and normal people, have a mundane redundancy. These authors and authorities have stolen love from the child and infant and made it the exclusive property of the adolescent and adult.

Thoughtful men, and probably all women, have speculated on the nature of love. From the developmental point of view, the general plan is quite

clear: The initial love responses of the human being are those made by the infant to the mother or some mother surrogate. From this intimate attachment of the child to the mother, multiple learned and generalized affectional responses are formed.

Unfortunately, beyond these simple facts we know little about the fundamental variables underlying the formation of affectional responses and little about the mechanisms through which the love of the infant for the mother develops into the multifaceted response patterns characterizing love or affection in the adult. Because of the dearth of experimentation, theories about the fundamental nature of affection have evolved at the level of observation, intuition, and discerning guesswork, whether these have been proposed by psychologists, sociologists, anthropologists, physicians, or psychoanalysts.

The position commonly held by psychologists and sociologists is quite clear: The basic motives are, for the most part, the primary drives—particularly hunger, thirst, elimination, pain, and sex—and all other motives, including love or affection, are derived or secondary drives. The mother is associated with the reduction of the primary drives—particularly hunger, thirst, and pain—and through learning, affection or love is derived.

It is entirely reasonable to believe that the mother through association with food may become a secondary-reinforcing agent, but this is an inadequate mechanism to account for the persistence of the infant-maternal ties. There is a spate of researches on the formation of secondary reinforcers to hunger and thirst reduction. There can be no question that almost any external stimulus can become a secondary reinforcer if properly associated with tissue-need reduction, but the fact remains that this redundant literature demonstrates unequivocally that such derived drives suffer relatively rapid experimental extinction. Contrariwise, human affection does not extinguish when the mother ceases to have intimate association with the drives in question. Instead, the affectional

¹ Address of the President at the sixty-sixth Annual Convention of the American Psychological Association, Washington, D. C., August 31, 1958.

The researches reported in this paper were supported by funds supplied by Grant No. M-722, National Institutes of Health, by a grant from the Ford Foundation, and by funds received from the Graduate School of the University of Wisconsin.



FIG. 1. Response to cloth pad by one-day-old monkey.

ties to the mother show a lifelong, unrelenting persistence and, even more surprising, widely expanding generality.

Oddly enough, one of the few psychologists who took a position counter to modern psychological dogma was John B. Watson, who believed that love was an innate emotion elicited by cutaneous stimulation of the erogenous zones. But experimental psychologists, with their peculiar propensity to discover facts that are not true, brushed this theory aside by demonstrating that the human neonate had no differentiable emotions, and they established a fundamental psychological law that prophets are without honor in their own profession.

The psychoanalysts have concerned themselves with the problem of the nature of the development of love in the neonate and infant, using ill and aging human beings as subjects. They have discovered the overwhelming importance of the breast and related this to the oral erotic tendencies developed at an age preceding their subjects' memories. Their theories range from a belief that the infant has an innate need to achieve and suckle at the breast to beliefs not unlike commonly accepted psychological theories. There are exceptions, as seen in the recent writings of John Bowlby, who attributes importance not only to food and thirst satisfaction, but also to "primary object-clinging," a need for intimate physical contact, which is initially associated with the mother.

As far as I know, there exists no direct experimental analysis of the relative importance of the stimulus variables determining the affectional or

love responses in the neonatal and infant primate. Unfortunately, the human neonate is a limited experimental subject for such researches because of his inadequate motor capabilities. By the time the human infant's motor responses can be precisely measured, the antecedent determining conditions cannot be defined, having been lost in a jumble and jungle of confounded variables.

Many of these difficulties can be resolved by the use of the neonatal and infant macaque monkey as the subject for the analysis of basic affectional variables. It is possible to make precise measurements in this primate beginning at two to ten days of age, depending upon the maturational status of the individual animal at birth. The macaque infant differs from the human infant in that the monkey is more mature at birth and grows more rapidly; but the basic responses relating to affection, including nursing, contact, clinging, and even visual and auditory exploration, exhibit no fundamental differences in the two species. Even the development of perception, fear, frustration, and learning capability follows very similar sequences in rhesus monkeys and human children.

Three years' experimentation before we started our studies on affection gave us experience with the neonatal monkey. We had separated more than 60 of these animals from their mothers 6 to 12 hours after birth and suckled them on tiny bottles. The infant mortality was only a small fraction of what would have obtained had we let the monkey mothers raise their infants. Our bottle-



FIG. 2. Response to gauze pad by six-month-old monkey used in earlier study.



FIG. 3. Cloth mother surrogate.

fed babies were healthier and heavier than monkey-mother-reared infants. We know that we are better monkey mothers than are real monkey mothers thanks to synthetic diets, vitamins, iron extracts, penicillin, chloromycetin, 5% glucose, and constant, tender, loving care.

During the course of these studies we noticed that the laboratory-raised babies showed strong attachment to the cloth pads (folded gauze diapers) which were used to cover the hardware-cloth floors of their cages. The infants clung to these pads and engaged in violent temper tantrums when the pads were removed and replaced for sanitary reasons. Such contact-need or responsiveness had been reported previously by Gertrude van Wagenen for the monkey and by Thomas McCulloch and George Haslerud for the chimpanzee and is reminiscent of the devotion often exhibited by human infants to their pillows, blankets, and soft, cuddly stuffed toys. Responsiveness by the one-day-old infant monkey to the cloth pad is shown in Figure 1, and an unusual and strong attachment of a six-month-old infant to the cloth pad is illustrated

in Figure 2. The baby, human or monkey, if it is to survive, must clutch at more than a straw.

We had also discovered during some allied observational studies that a baby monkey raised on a bare wire-mesh cage floor survives with difficulty, if at all, during the first five days of life. If a wire-mesh cone is introduced, the baby does better; and, if the cone is covered with terry cloth, husky, healthy, happy babies evolve. It takes more than a baby and a box to make a normal monkey. We were impressed by the possibility that, above and beyond the bubbling fountain of breast or bottle, contact comfort might be a very important variable in the development of the infant's affection for the mother.

At this point we decided to study the development of affectional responses of neonatal and infant monkeys to an artificial, inanimate mother, and so we built a surrogate mother which we hoped and believed would be a good surrogate mother. In devising this surrogate mother we were dependent neither upon the capriciousness of evolutionary processes nor upon mutations produced by chance radioactive fallout. Instead, we designed the mother surrogate in terms of modern human-engineering principles (Figure 3). We produced a perfectly proportioned, streamlined body stripped of unnecessary bulges and appendices. Redundancy in the surrogate mother's system was avoided by reducing the number of breasts from two to one and placing this unibreast in an upper-thoracic, sagittal position, thus maximizing the natural and known perceptual-motor capabilities of the infant

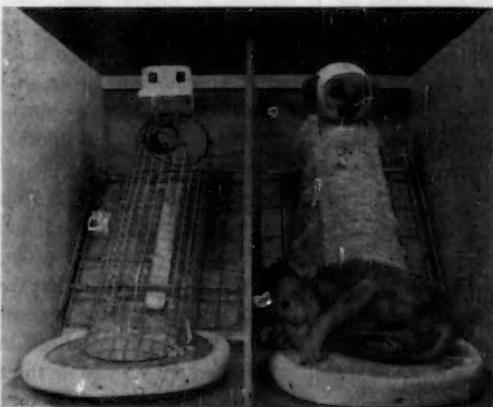


FIG. 4. Wire and cloth mother surrogates.

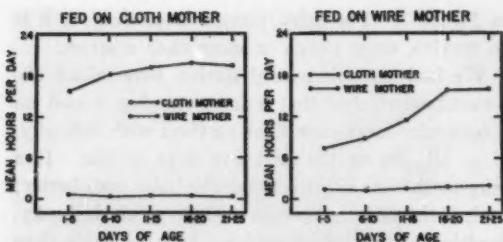


FIG. 5. Time spent on cloth and wire mother surrogates.

operator. The surrogate was made from a block of wood, covered with sponge rubber, and sheathed in tan cotton terry cloth. A light bulb behind her radiated heat. The result was a mother, soft, warm, and tender, a mother with infinite patience, a mother available twenty-four hours a day, a mother that never scolded her infant and never struck or bit her baby in anger. Furthermore, we designed a mother-machine with maximal maintenance efficiency since failure of any system or function could be resolved by the simple substitution of black boxes and new component parts. It is our opinion that we engineered a very superior monkey mother, although this position is not held universally by the monkey fathers.

Before beginning our initial experiment we also designed and constructed a second mother surrogate, a surrogate in which we deliberately built less than the maximal capability for contact comfort. This surrogate mother is illustrated in Figure 4. She is made of wire-mesh, a substance entirely adequate to provide postural support and nursing capability, and she is warmed by radiant heat. Her body differs in no essential way from that of the cloth mother surrogate other than in the quality of the contact comfort which she can supply.

In our initial experiment, the dual mother-surrogate condition, a cloth mother and a wire mother were placed in different cubicles attached to the infant's living cage as shown in Figure 4. For four newborn monkeys the cloth mother lactated and the wire mother did not; and, for the other four, this condition was reversed. In either condition the infant received all its milk through the mother surrogate as soon as it was able to maintain itself in this way, a capability achieved within two or three days except in the case of very immature infants. Supplementary feedings were given until the milk

intake from the mother surrogate was adequate. Thus, the experiment was designed as a test of the relative importance of the variables of contact comfort and nursing comfort. During the first 14 days of life the monkey's cage floor was covered with a heating pad wrapped in a folded gauze diaper, and thereafter the cage floor was bare. The infants were always free to leave the heating pad or cage floor to contact either mother, and the time spent on the surrogate mothers was automatically recorded. Figure 5 shows the total time spent on the cloth and wire mothers under the two conditions of feeding. These data make it obvious that contact comfort is a variable of overwhelming importance in the development of affectional responses, whereas lactation is a variable of negligible importance. With age and opportunity to learn, subjects with the lactating wire mother showed decreasing responsiveness to her and increasing responsiveness to the nonlactating cloth mother, a finding completely contrary to any interpretation of derived drive in which the mother-form becomes conditioned to hunger-thirst reduction. The persistence of these differential responses throughout 165 consecutive days of testing is evident in Figure 6.

One control group of neonatal monkeys was raised on a single wire mother, and a second control group was raised on a single cloth mother. There were no differences between these two groups in amount of milk ingested or in weight gain. The

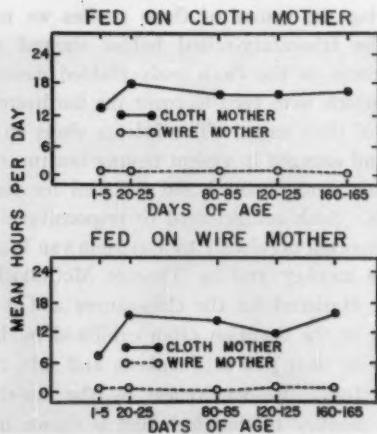


FIG. 6. Long-term contact time on cloth and wire mother surrogates.

only difference between the groups lay in the composition of the feces, the softer stools of the wire-mother infants suggesting psychosomatic involvement. The wire mother is biologically adequate but psychologically inept.

We were not surprised to discover that contact comfort was an important basic affectional or love variable, but we did not expect it to overshadow so completely the variable of nursing; indeed, the disparity is so great as to suggest that the primary function of nursing as an affectional variable is that of insuring frequent and intimate body contact of the infant with the mother. Certainly, man cannot live by milk alone. Love is an emotion that does not need to be bottle- or spoon-fed, and we may be sure that there is nothing to be gained by giving lip service to love.

A charming lady once heard me describe these experiments; and, when I subsequently talked to her, her face brightened with sudden insight: "Now I know what's wrong with me," she said, "I'm just a wire mother." Perhaps she was lucky. She might have been a wire wife.

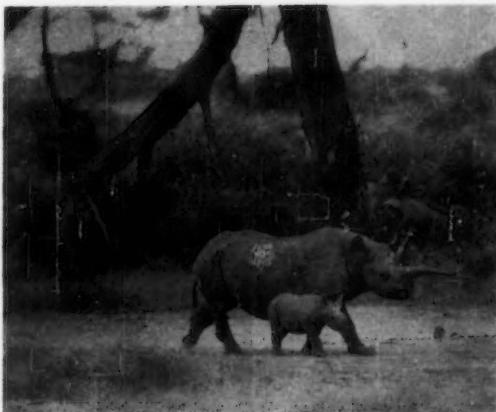
We believe that contact comfort has long served the animal kingdom as a motivating agent for affectional responses. Since at the present time we have no experimental data to substantiate this position, we supply information which must be accepted, if at all, on the basis of face validity:



—From *Look*, August 19, 1958

The Hippopotamus

This is the skin some babies feel
Replete with hippo love appeal.
Each contact, cuddle, push, and shove
Elicits tons of baby love.



—From *Zoo Guide*, Zoological Society of London

The Rhinocerus

The rhino's skin is thick and tough,
And yet this skin is soft enough
That baby rhinos always sense,
A love enormous and intense.



From *All About Snakes*, E. M. Hale & Co.

The Snake

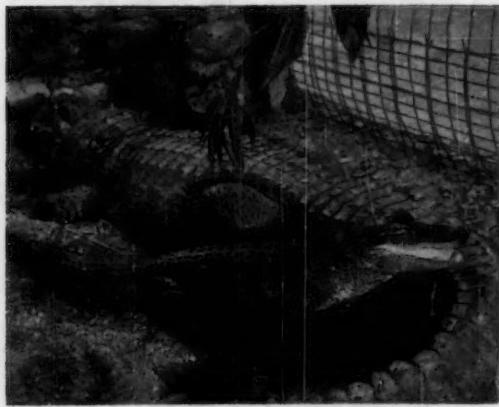
To baby vipers, scaly skin
Engenders love 'twixt kith and kin.
Each animal by God is blessed
With kind of skin it loves the best.



—Ylla

The Elephant

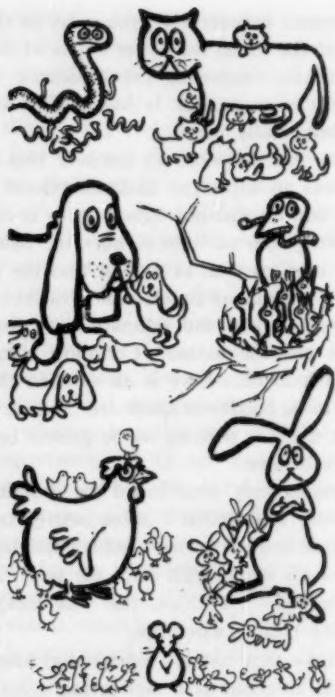
Though mother may be short on arms,
Her skin is full of warmth and charms.
And mother's touch on baby's skin
Endears the heart that beats within.



—Sponholz

The Crocodile

Here is the skin they love to touch.
It isn't soft and there isn't much,
But its contact comfort will beguile
Love from the infant crocodile.



You see, all God's chillun's got skin.

One function of the real mother, human or sub-human, and presumably of a mother surrogate, is to provide a haven of safety for the infant in times of fear and danger. The frightened or ailing child clings to its mother, not its father; and this selective responsiveness in times of distress, disturbance, or danger may be used as a measure of the strength of affectional bonds. We have tested this kind of differential responsiveness by presenting to the infants in their cages, in the presence of the two mothers, various fear-producing stimuli such as the moving toy bear illustrated in Figure 13. A typical response to a fear stimulus is shown in Figure 14, and the data on differential responsiveness are presented in Figure 15. It is apparent that the cloth mother is highly preferred over the wire one, and this differential selectivity is enhanced by age and experience. In this situation, the variable of nursing appears to be of absolutely no importance: the infant consistently seeks the soft mother surrogate regardless of nursing condition.

Similarly, the mother or mother surrogate provides its young with a source of security, and this

role or function is seen with special clarity when mother and child are in a strange situation. At the present time we have completed tests for this relationship on four of our eight baby monkeys assigned to the dual mother-surrogate condition by introducing them for three minutes into the strange environment of a room measuring six feet by six feet by six feet (also called the "open-field test") and containing multiple stimuli known to elicit curiosity-manipulatory responses in baby monkeys. The subjects were placed in this situation twice a week for eight weeks with no mother surrogate present during alternate sessions and the cloth mother present during the others. A cloth diaper was always available as one of the stimuli throughout all sessions. After one or two adaptation sessions, the infants always rushed to the mother surrogate when she was present and clutched her, rubbed their bodies against her, and frequently manipulated her body and face. After a few additional sessions, the infants began to use the mother surrogate as a source of security, a base of operations. As is shown in Figures 16 and 17, they would explore and manipulate a stimulus and then return to the mother before adventuring again



FIG. 14. Typical response to cloth mother surrogate in fear test.



FIG. 13. Typical fear stimulus.

into the strange new world. The behavior of these infants was quite different when the mother was absent from the room. Frequently they would freeze in a crouched position, as is illustrated in Figures 18 and 19. Emotionality indices such as vocalization, crouching, rocking, and sucking increased sharply, as shown in Figure 20. Total emotionality score was cut in half when the mother was present. In the absence of the mother some of the experimental monkeys would rush to the

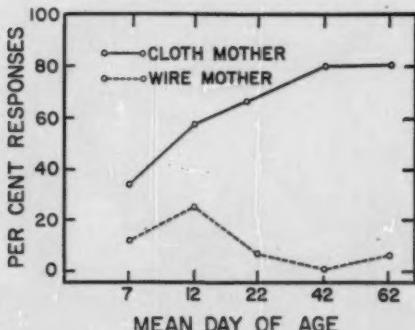


FIG. 15. Differential responsiveness in fear tests.



FIG. 16. Response to cloth mother in the open-field test.

center of the room where the mother was customarily placed and then run rapidly from object to object, screaming and crying all the while. Continuous, frantic clutching of their bodies was very common, even when not in the crouching position. These monkeys frequently contacted and clutched the cloth diaper, but this action never pacified them. The same behavior occurred in the presence of the wire mother. No difference between the cloth-mother-fed and wire-mother-fed infants was demonstrated under either condition. Four control infants never raised with a mother surrogate showed the same emotionality scores when the mother was absent as the experimental infants showed in the absence of the mother, but the controls' scores were slightly larger in the presence of the mother surrogate than in her absence.

Some years ago Robert Butler demonstrated that



FIG. 17. Object exploration in presence of cloth mother.



FIG. 18. Response in the open-field test in the absence of the mother surrogate.

mature monkeys enclosed in a dimly lighted box would open and reopen a door hour after hour for no other reward than that of looking outside the box. We now have data indicating that neonatal monkeys show this same compulsive visual curiosity on their first test day in an adaptation of the Butler apparatus which we call the "love machine," an apparatus designed to measure love. Usually these tests are begun when the monkey is 10 days of age, but this same persistent visual exploration has been obtained in a three-day-old monkey during the first half-hour of testing. Butler also demonstrated that rhesus monkeys show selectivity in rate and frequency of door-opening to stimuli of differential attractiveness in the visual field outside the box. We have utilized this principle of



FIG. 19. Response in the open-field test in the absence of the mother surrogate.

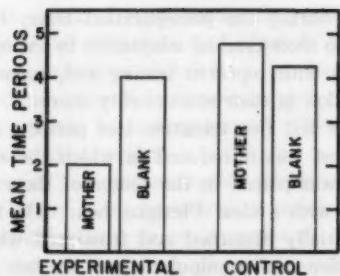


FIG. 20. Emotionality index with and without the presence of the cloth mother.

response selectivity by the monkey to measure strength of affectional responsiveness in our infants in the baby version of the Butler box. The test sequence involves four repetitions of a test battery in which four stimuli—cloth mother, wire mother, infant monkey, and empty box—are presented for a 30-minute period on successive days. The first four subjects in the dual mother-surrogate group were given a single test sequence at 40 to 50 days of age, depending upon the availability of the apparatus, and only their data are presented. The second set of four subjects is being given repetitive tests to obtain information relating to the develop-



FIG. 21. Visual exploration apparatus.

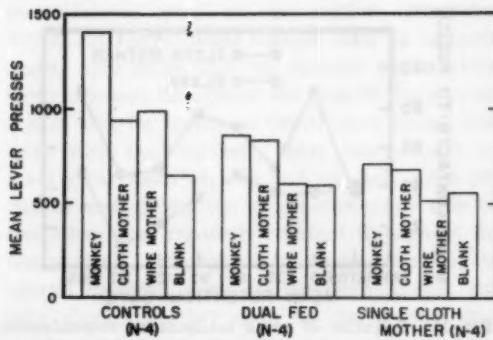


FIG. 22. Differential responses to visual exploration.

ment of visual exploration. The apparatus is illustrated in Figure 21. The data obtained from the first four infants raised with the two mother surrogates are presented in the middle graph of Figure 22 and show approximately equal responding to the cloth mother and another infant monkey, and no greater responsiveness to the wire mother than to an empty box. Again, the results are independent of the kind of mother that lactated, cloth or wire. The same results are found for a control group raised, but not fed, on a single cloth mother; these data appear in the graph on the right. Contrariwise, the graph on the left shows no differential responsiveness to cloth and wire mothers by a second control group, which was not raised on any mother surrogate. We can be certain that not all love is blind.

The first four infant monkeys in the dual mother-surrogate group were separated from their mothers between 165 and 170 days of age and tested for retention during the following 9 days and then at 30-day intervals for six successive months. Affectional

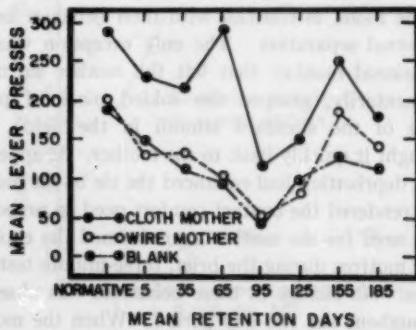


FIG. 23. Retention of differential visual-exploration responses.

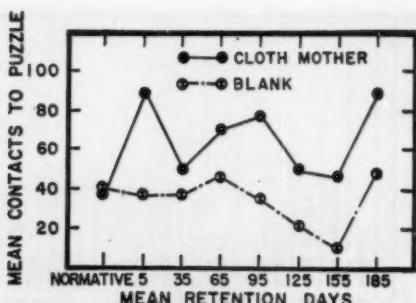


FIG. 24. Retention of puzzle manipulation responsiveness.

retention as measured by the modified Butler box is given in Figure 23. In keeping with the data obtained on adult monkeys by Butler, we find a high rate of responding to any stimulus, even the empty box. But throughout the entire 185-day retention period there is a consistent and significant difference in response frequency to the cloth mother contrasted with either the wire mother or the empty box, and no consistent difference between wire mother and empty box.

Affectional retention was also tested in the open field during the first 9 days after separation and then at 30-day intervals, and each test condition was run twice at each retention interval. The infant's behavior differed from that observed during the period preceding separation. When the cloth mother was present in the post-separation period, the babies rushed to her, climbed up, clung tightly to her, and rubbed their heads and faces against her body. After this initial embrace and reunion, they played on the mother, including biting and tearing at her cloth cover; but they rarely made any attempt to leave her during the test period, nor did they manipulate or play with the objects in the room, in contrast with their behavior before maternal separation. The only exception was the occasional monkey that left the mother surrogate momentarily, grasped the folded piece of paper (one of the standard stimuli in the field), and brought it quickly back to the mother. It appeared that deprivation had enhanced the tie to the mother and rendered the contact-comfort need so prepotent that need for the mother overwhelmed the exploratory motives during the brief, three-minute test sessions. No change in these behaviors was observed throughout the 185-day period. When the mother was absent from the open field, the behavior of the infants was similar in the initial retention test

to that during the preseparation tests; but they tended to show gradual adaptation to the open-field situation with repeated testing and, consequently, a reduction in their emotionality scores.

In the last five retention test periods, an additional test was introduced in which the surrogate mother was placed in the center of the room and covered with a clear Plexiglas box. The monkeys were initially disturbed and frustrated when their explorations and manipulations of the box failed to provide contact with the mother. However, all animals adapted to the situation rather rapidly. Soon they used the box as a place of orientation for exploratory and play behavior, made frequent contacts with the objects in the field, and very often brought these objects to the Plexiglas box. The emotionality index was slightly higher than in the condition of the available cloth mothers, but it in no way approached the emotionality level displayed when the cloth mother was absent. Obviously, the infant monkeys gained emotional security by the presence of the mother even though contact was denied.

Affectional retention has also been measured by tests in which the monkey must unfasten a three-device mechanical puzzle to obtain entrance into a compartment containing the mother surrogate. All the trials are initiated by allowing the infant to go through an unlocked door, and in half the trials it finds the mother present and in half, an empty compartment. The door is then locked and a ten-minute test conducted. In tests given prior to separation from the surrogate mothers, some of the infants had solved this puzzle and others had failed. The data of Figure 24 show that on the last test before separation there were no differences in total manipulation under mother-present and mother-absent conditions, but striking differences exist between the two conditions throughout the post-separation test periods. Again, there is no interaction with conditions of feeding.

The over-all picture obtained from surveying the retention data is unequivocal. There is little, if any, waning of responsiveness to the mother throughout this five-month period as indicated by any measure. It becomes perfectly obvious that this affectional bond is highly resistant to forgetting and that it can be retained for very long periods of time by relatively infrequent contact reinforcement. During the next year, retention tests will be conducted at 90-day intervals, and further plans are depend-

ent upon the results obtained. It would appear that affectional responses may show as much resistance to extinction as has been previously demonstrated for learned fears and learned pain, and such data would be in keeping with those of common human observation.

The infant's responses to the mother surrogate in the fear tests, the open-field situation, and the baby Butler box and the responses on the retention tests cannot be described adequately with words. For supplementary information we turn to the motion picture record. (At this point a 20-minute film was presented illustrating and supplementing the behaviors described thus far in the address.)

We have already described the group of four control infants that had never lived in the presence of any mother surrogate and had demonstrated no sign of affection or security in the presence of the cloth mothers introduced in test sessions. When these infants reached the age of 250 days, cubicles containing both a cloth mother and a wire mother were attached to their cages. There was no lactation in these mothers, for the monkeys were on a solid-food diet. The initial reaction of the monkeys to the alterations was one of extreme disturbance. All the infants screamed violently and made repeated attempts to escape the cage whenever the door was opened. They kept a maximum distance from the mother surrogates and exhibited a considerable amount of rocking and crouching behavior, indicative of emotionality. Our first thought was that the critical period for the development of maternally directed affection had passed and that these macaque children were doomed to live as affectional orphans. Fortunately, these behaviors continued for only 12 to 48 hours and then gradually ebbed, changing from indifference to active contact on, and exploration of, the surrogates. The home-cage behavior of these control monkeys slowly became similar to that of the animals raised with the mother surrogates from birth. Their manipulation and play on the cloth mother became progressively more vigorous to the point of actual mutilation, particularly during the morning after the cloth mother had been given her daily change of terry covering. The control subjects were now actively running to the cloth mother when frightened and had to be coaxed from her to be taken from the cage for formal testing.

Objective evidence of these changing behaviors is given in Figure 25, which plots the amount of time

these infants spent on the mother surrogates. Within 10 days mean contact time is approximately nine hours, and this measure remains relatively constant throughout the next 30 days. Consistent with the results on the subjects reared from birth with dual mothers, these late-adopted infants spent less than one and one-half hours per day in contact with the wire mothers, and this activity level was relatively constant throughout the test sessions. Although the maximum time that the control monkeys spent on the cloth mother was only about half that spent by the original dual mother-surrogate group, we cannot be sure that this discrepancy is a function of differential early experience. The control monkeys were about three months older when the mothers were attached to their cages than the experimental animals had been when their mothers were removed and the retention tests begun. Thus, we do not know what the amount of contact would be for a 250-day-old animal raised from birth with surrogate mothers. Nevertheless, the magnitude of the differences and the fact that the contact-time curves for the mothered-from-birth infants had remained constant for almost 150 days suggest that early experience with the mother is a variable of measurable importance.

The control group has also been tested for differential visual exploration after the introduction of the cloth and wire mothers; these behaviors are plotted in Figure 26. By the second test session a high level of exploratory behavior had developed, and the responsiveness to the wire mother and the empty box is significantly greater than that to the cloth mother. This is probably not an artifact

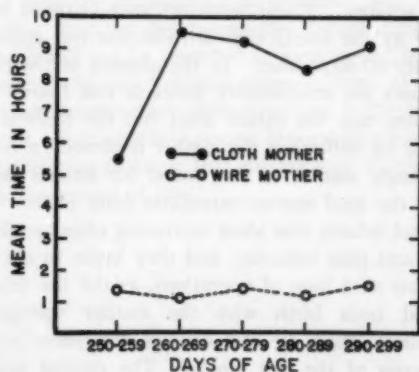


FIG. 25. Differential time spent on cloth and wire mother surrogates by monkeys started at 250 days of age.

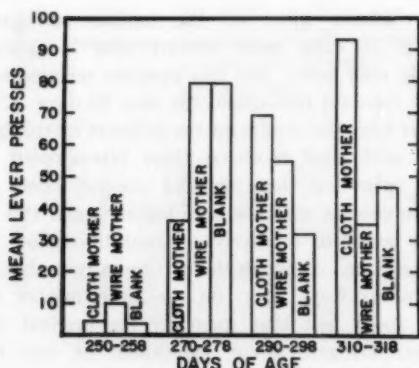


FIG. 26. Differential visual exploration of monkeys started at 250 days of age.

since there is every reason to believe that the face of the cloth mother is a fear stimulus to most monkeys that have not had extensive experience with this object during the first 40 to 60 days of life. Within the third test session a sharp change in trend occurs, and the cloth mother is then more frequently viewed than the wire mother or the blank box; this trend continues during the fourth session, producing a significant preference for the cloth mother.

Before the introduction of the mother surrogate into the home-cage situation, only one of the four control monkeys had ever contacted the cloth mother in the open-field tests. In general, the surrogate mother not only gave the infants no security, but instead appeared to serve as a fear stimulus. The emotionality scores of these control subjects were slightly higher during the mother-present test sessions than during the mother-absent test sessions. These behaviors were changed radically by the fourth post-introduction test approximately 60 days later. In the absence of the cloth mothers the emotionality index in this fourth test remains near the earlier level, but the score is reduced by half when the mother is present, a result strikingly similar to that found for infants raised with the dual mother-surrogates from birth. The control infants now show increasing object exploration and play behavior, and they begin to use the mother as a base of operations, as did the infants raised from birth with the mother surrogates. However, there are still definite differences in the behavior of the two groups. The control infants do not rush directly to the mother and clutch her violently; but instead they go toward, and orient

around, her, usually after an initial period during which they frequently show disturbed behavior, exploratory behavior, or both.

That the control monkeys develop affection or love for the cloth mother when she is introduced into the cage at 250 days of age cannot be questioned. There is every reason to believe, however, that this interval of delay depresses the intensity of the affectional response below that of the infant monkeys that were surrogate-mothered from birth onward. In interpreting these data it is well to remember that the control monkeys had had continuous opportunity to observe and hear other monkeys housed in adjacent cages and that they had had limited opportunity to view and contact surrogate mothers in the test situations, even though they did not exploit the opportunities.

During the last two years we have observed the behavior of two infants raised by their own mothers. Love for the real mother and love for the surrogate mother appear to be very similar. The baby macaque spends many hours a day clinging to its real mother. If away from the mother when frightened, it rushes to her and in her presence shows comfort and composure. As far as we can observe, the infant monkey's affection for the real mother is strong, but no stronger than that of the experimental monkey for the surrogate cloth mother, and the security that the infant gains from the presence of the real mother is no greater than the security it gains from a cloth surrogate. Next year we hope to put this problem to final, definitive, experimental test. But, whether the mother is real or a cloth surrogate, there does develop a deep and abiding bond between mother and child. In one case it may be the call of the wild and in the other the McCall of civilization, but in both cases there is "togetherness."

In spite of the importance of contact comfort, there is reason to believe that other variables of measurable importance will be discovered. Postural support may be such a variable, and it has been suggested that, when we build arms into the mother surrogate, 10 is the minimal number required to provide adequate child care. Rocking motion may be such a variable, and we are comparing rocking and stationary mother surrogates and inclined planes. The differential responsiveness to cloth mother and cloth-covered inclined plane suggests that clinging as well as contact is an affective variable of importance. Sounds,

particularly natural, maternal sounds, may operate as either unlearned or learned affectional variables. Visual responsiveness may be such a variable, and it is possible that some semblance of visual imprinting may develop in the neonatal monkey. There are indications that this becomes a variable of importance during the course of infancy through some maturational process.

John Bowlby has suggested that there is an affectional variable which he calls "primary object following," characterized by visual and oral search of the mother's face. Our surrogate-mother-raised baby monkeys are at first inattentive to her face, as are human neonates to human mother faces. But by 30 days of age ever-increasing responsiveness to the mother's face appears—whether through learning, maturation, or both—and we have reason to believe that the face becomes an object of special attention.

Our first surrogate-mother-raised baby had a mother whose head was just a ball of wood since the baby was a month early and we had not had time to design a more esthetic head and face. This baby had contact with the blank-faced mother for 180 days and was then placed with two cloth mothers, one motionless and one rocking, both being endowed with painted, ornamented faces. To our surprise the animal would compulsively rotate both faces 180 degrees so that it viewed only a round, smooth face and never the painted, ornamented face. Furthermore, it would do this as long as the patience of the experimenter in reorienting the faces persisted. The monkey showed no sign of fear or anxiety, but it showed unlimited persistence. Subsequently it improved its technique, compulsively removing the heads and rolling them into its cage as fast as they were returned. We are intrigued by this observation, and we plan to examine systematically the role of the mother face in the development of infant-monkey affections. Indeed, these observations suggest the need for a series of ethological-type researches on the two-faced female.

Although we have made no attempts thus far to study the generalization of infant-macaque affection or love, the techniques which we have developed offer promise in this uncharted field. Beyond this, there are few if any technical difficulties in studying the affection of the actual, living mother for the child, and the techniques developed can be utilized and expanded for the analysis and developmental study of father-infant and infant-infant affection.

Since we can measure neonatal and infant affectional responses to mother surrogates, and since we know they are strong and persisting, we are in a position to assess the effects of feeding and contactual schedules; consistency and inconsistency in the mother surrogates; and early, intermediate, and late maternal deprivation. Again, we have here a family of problems of fundamental interest and theoretical importance.

If the researches completed and proposed make a contribution, I shall be grateful; but I have also given full thought to possible practical applications. The socioeconomic demands of the present and the threatened socioeconomic demands of the future have led the American woman to displace, or threaten to displace, the American man in science and industry. If this process continues, the problem of proper child-rearing practices faces us with startling clarity. It is cheering in view of this trend to realize that the American male is physically endowed with all the really essential equipment to compete with the American female on equal terms in one essential activity: the rearing of infants. We now know that women in the working classes are not needed in the home because of their primary mammalian capabilities; and it is possible that in the foreseeable future neonatal nursing will not be regarded as a necessity, but as a luxury—to use Veblen's term—a form of conspicuous consumption limited perhaps to the upper classes. But whatever course history may take, it is comforting to know that we are now in contact with the nature of love.

ANNUAL REPORT OF THE EXECUTIVE SECRETARY: 1958

ROGER W. RUSSELL

American Psychological Association

APA's Central Office is pleased that this 1958 Annual Convention is being held in Washington, D. C. Washington is not only the center of national affairs, but it is also a center for scientific and professional organizations. Some of our colleagues from these other organizations will be attending our meetings. We are happy to have them with us for they have been very helpful to us during the past year in our cooperative considerations of issues which affect the national scientific and professional community as a whole.

We are particularly pleased that this Washington meeting will provide an opportunity for all of you to visit the Central Office. Sometimes we in that office become a bit paranoid, feeling that members may not know the magnitude and breadth of the tasks they have assigned us. Please plan to take at least a few minutes to visit your headquarters on Sixteenth Street.

In my 1957 Annual Report, I discussed the allocation of expenses to the major areas of APA activity. Since then the Auditors have examined our books for another fiscal year. Allocations of expenses were almost identical for these two years. Publication was by far the largest item: 65% of total expenses in both years. The cost of special services decreased from 15% to 11%, while the cost of handling membership rose slightly from 6% to 10%—primarily due to expenses incurred in producing the 1957 *APA Directory*. The proportionate costs of other major activities did not change. From this financial point of view, 1957 was much the same as 1956. In fact, the 1958 Report of the Policy and Planning Board states that, on a per member basis, total APA and Central Office costs have been relatively constant for many years.

But the autumn of 1957 and the spring of 1958 saw the rise of several issues of interest and importance which made these months anything but "routine." It is upon these issues and the reactions of psychologists and of the APA to them that I wish to focus attention in this report. In doing so I hope that I shall answer some of the recurring questions put to me during the year.

During the early autumn of last year, dramatic technological advances caught the public imagination. "Science and education" were words on the tips of many tongues—providing subjects for many conferences and for over 1,000 bills introduced in the national Congress. But only last week, in its last hours before adjournment, did Congress pass a major bill drafted to come to grips with some of the educational issues which both general and informed opinion agree are in need of immediate attention.

The weeks between 1957's autumn and 1958's late summer are interesting to examine. It is clear that conflicts were occurring in the thoughts and actions of Americans at many levels. There was a general apprehension that serious problems existed, but a lack of certainty as to what these problems actually were and how they might be solved. International contests between achievements and counter-achievements—and, I suppose, anti-achievement achievements—confused the scene. Concern and anxiety blew hot, then cold, then warmed up again. Conflict produces vacillation and oscillation, and this was a period that left many Americans quite dizzy.

In their own microcosm, psychologists were also faced with conflicts in need of resolution. There were questions of their roles, as individuals and as a national organization, in the science and education issues so prominent on the national scene. There were questions of their relationships with other groups: with psychology abroad and with other sciences and professions at home. There were internal questions relating to American psychology's continued rapid growth and development.

NATIONAL ISSUES

It was quite clear during the autumn and spring that there were a number of national issues of direct concern to psychologists and other national issues which affected psychologists as members of the general scientific and professional community. We were well prepared to handle these first issues, for APA, as an association, had already accepted

the policy of encouraging the dissemination of factual information on issues about which psychologists can rightly claim particular competence. We were not as well prepared to react to issues affecting the scientific and professional community as a whole and on which we have no greater competence than our colleagues in other sciences and professions. It is in regard to this latter type of issue that significant developments have now occurred.

In its 1958 Report, the Policy and Planning Board

. . . takes the position that the APA has no choice but to step forward with as clear a case as we can prepare . . . There is a public role to be played today by organized scientists; our association should do no less than its share.

This is both a thoughtful and realistic policy to recommend; it is also a policy which carries with it important responsibilities. Because there are a number of ways in which an association can "step forward" on issues of a general nature, the Policy and Planning Board has set down as guides "certain canons that, as a scientific and professional organization, we should follow." You can read the board's report in the August 1958 issue of the *American Psychologist*, so I shall not now elaborate on what it contains.

Coincidentally with these policy considerations by the Policy and Planning Board, APA's Committee on Public Relations had underway a study of the association's public information policy and objectives. This study has been completed, and the Council of Representatives now has for consideration "A Recommended Statement of Policies and Objectives for Guiding Public Information Activities." This statement is based upon the assumption

. . . that a wider dissemination of facts on methods and achievements of psychology will foster a more correct evaluation and more intelligent support of psychology by society.

It contains ten "articles" which you as individual psychologists and our colleagues responsible for association affairs may find to be helpful guides when engaged perchance or by choice in public information activities.

During the past months American psychology has provided factual information and informed opinions in several ways. Just as any other citizens, psychologists are members of the national

community. On issues affecting the community, they have spoken as individual citizens. On issues involving knowledge of psychology they have been asked, or have volunteered, to speak for themselves as expert citizens of the community. They have been called upon frequently at both local and national levels. They have contributed to decisions affecting the community, even to the bill on science and education which Congress has just adopted. APA as an association has also made its contributions. Because of Central Office contacts with other scientific and professional organizations and with legislative and other public bodies, it has been possible to make informal suggestions on sources of factual information and informed opinions when issues of psychological import arose. Individual psychologists have then been invited to provide the information and opinions, speaking for themselves and not as official representatives of the association. In one instance during the current APA year, the Board of Directors considered it important that official representatives appear before a public body. The testimony presented to the Senate Committee on Labor and Public Welfare during hearings on legislative proposals affecting science and education was published in the May 1958 *American Psychologist*. It was an attempt to reflect a reasonable consensus of the views of members of the association.

Earlier this year I reviewed in the *American Psychologist* specific contemporary issues of concern to psychologists; there is no need to list them now. But I do wish to make the point that, out of our interests in the national issues of the past few months, there is developing a clearer conception of our public roles as psychologists and as members of a national scientific and professional community.

INTERNATIONAL RELATIONS

While these roles were being clarified, APA was also developing its contacts with psychologists abroad. It is very pleasant to welcome at this convention so many of our colleagues from other countries.

In 1957, the APA's Committee on International Relations proposed a general plan for establishing and maintaining liaison with the national societies in other countries—a plan which was later adopted by the Council of Representatives. This plan was based upon the general premise that international

exchanges in psychology would be profitable as well as pleasant for all concerned. Indeed the profit might generalize beyond purely psychological issues.

The months since APA's last Annual Convention have been fruitful in the development of our international contacts over the world. To mention a few of these activities will give a general idea of what has been occurring.

With one of our members as General Secretary of the International Union of Scientific Psychology and another as a member of its Executive Committee, we have participated in the union's affairs. You may be interested to know that the union has accepted an invitation from the German Psychological Association to hold the 1960 International Congress of Psychology in Cologne, Germany. We have corresponded with national societies in a number of countries on matters of mutual interest and, in some instances, have been able to pass on useful information based on APA experience as a national organization. The most extensive correspondence has been with the Soviet Psychological Society, with whom we now have a regular exchange of journals and other information of scientific and professional interest. During the year, occasions have arisen to send needed journals and other psychological materials to Switzerland, Pakistan, Thailand, Mexico, and Poland and to continue exchange and complimentary subscriptions with many other countries. We have been able to lend some assistance to new psychological publications abroad.

Personal visits have added much to our international contacts during these past months. Colleagues from a number of other countries have helped by informing us of developments in their own national psychologies. It has been particularly pleasant to have visits from colleagues from whom we have heard but little for several years. American psychologists continue to travel and study abroad at a frequency which has made this something of a postwar custom. Thanks to a grant from the Carnegie Corporation, APA has been able to send official representatives to international conferences in Mexico, Italy, Great Britain, and France. An APA member was one of the party of educators who accompanied the United States Commissioner of Education on his spring visit to the Soviet Union.

Several of APA's divisions have become particularly interested in the relations between American

psychologists and their colleagues abroad. At this convention, representatives of these divisions and of the International Council of Women Psychologists met with members of the association's Committee on International Relations to discuss plans for encouraging international exchanges of persons and information. Experience suggests that growth of interest in such exchanges is correlated with growth of opportunities to put them into effect.

RELATIONS AT HOME

International relations were important, but so were relations with other sciences and professions at home. The year has seen much thinking and discussion of the implications of such relations, of APA's responsibilities for them, and of procedures for handling them.

The public's interest in science and education had the effect of bringing national science organizations together to consider issues of common interest and concern. Most of these meetings were informal, but they provided contacts which will continue. Through the initiative of the American Institute of Physics, executive officers of several scientific associations are considering the usefulness of fairly regular meetings. Such informal arrangements as these go a long way toward maintaining desirable relations with other sciences. APA also has more formal ties with the American Association for the Advancement of Science, the National Research Council, the Social Science Research Council, and the Scientific Manpower Commission.

Since last autumn many psychologists, who have not done so before, have raised questions regarding relations between psychology and education. Several years ago, APA as an association had evidenced its interest in such relations by establishing and maintaining a Committee on Relations between Psychology and Education. APA divisions, such as the Division of Educational Psychology and the Division of School Psychologists, contribute much to this liaison. But the special events of late 1957 stimulated new and more frequent contacts. Of particular interest were the meetings arranged by the National Academy of Science and those sponsored by the American Educational Research Association to consider problems related to research in education. We are very likely to hear more of the results of these meetings; it is well that psychologists were invited to attend.

In these instances, relations between psychology and other disciplines were mutually beneficial. Unfortunately this was not always true. During this past year, the American Psychiatric Association withdrew its agreement regarding the acceptance of certification as the desirable and appropriate form of state legislation for psychology. This significant action has necessitated the current re-examination of the APA policies affected.

In other professional areas invitations have been received to establish more formal liaison than has existed in the past. APA's Board of Professional Affairs is now considering general principles upon which formal relations between APA and other professional groups may best be based.

INTERNAL ISSUES

These concerns over roles and relations were not the only signs of American psychology's growth and development during the past year. There were several issues internal to psychology and APA which deserve particular attention.

Publications. One of the sensitive measures of American psychology's growth and development is journal publication. Journals are perhaps the most effective of all our media for communicating scientific and professional information both at home and abroad.

My own experience in European psychology leads me to venture the opinion that the significance of APA's contributions through its publications is more fully appreciated outside than it is within the United States. Not only do our colleagues abroad speak well of APA journals, they also subscribe to them. Last spring, a survey showed more than 4,500 foreign subscriptions, a class of subscriptions that has increased astoundingly during the past three years: income from 1957 foreign subscriptions was 116% of income for 1956; income for the first half of 1958 was already 112% of the total income for 1957.

The fact that APA journals serve as a very important medium of communication with psychologists abroad as well as at home raises immediate and long-range problems to be solved. Individually we become concerned as to whether our own manuscripts are accepted for publication or are rejected. Our Editors and Publications Board must be concerned with the increasing pressures for publication—pressures which in the past have already led to phenomenal expansion in the world's core

literature of psychology. In 1890 there were only two core journals; in 1953 there were 160. If the pressure for publication were to be met in the future by similar increases in the core literature, it is estimated that there will be 212 psychological journals in 1960, 264 in 1970, and 316 in 1980. Estimating from the present size of journals, this could mean publication of over 22,000 articles in 1980. I can hear understandable groans from those who realize the difficulties to be faced in producing, storing, and retrieving such masses of information by any of the conventional methods currently in use. But the issues must be faced.

Indeed, they already affect our publication enterprise. Any such enterprise must be paid for; and we rightly expect a high level product at a minimum of expense. Those responsible for APA's publications are continually monitoring their cost and quality. Information from competitive bids and from studies conducted by other organizations indicates that the cost of APA journals contrasts very favorably with the cost of producing similar journals. Our comparative publication costs are good; the hitch is elsewhere. During the past two years, over-all printing costs have risen by approximately 17%. We have been alerted that additional increases are in the offing, paralleling the general inflationary economy which has characterized the American scene for many years.

Conferences. During the past several years, there has been a growing realization of the significant contributions well planned conferences can make to the clarification of scientific and professional issues. Before it ends, the year 1958 will have seen four special conferences. An Institute on the Role of Psychology and Psychologists in Rehabilitation, held last February, was financed by a grant from the United States Office of Vocational Rehabilitation. An intensive Seminar on Experimental Design and Inference, supported by the Carnegie Foundation, has just recently ended. Early in November APA will co-sponsor with the American Association on Mental Deficiency a conference on the training of psychologists in the field of mental retardation. Later in that month, APA will hold a Conference on Graduate Training in Psychology, a conference with a more inclusive frame of reference than the important Boulder Conference of some ten years ago.

Ethical Standards. Last spring, while addressing the Rome Congress of the International Association

of Applied Psychology, Pius XII commended APA for its actions in adopting its *Ethical Standards of Psychologists* as official policy of the association. The wide publicity this commendation received reminded many psychologists that the statement of our ethical standards was under revision. A draft of the revision has now been published for your comments and suggestions before the final version is recommended to you for adoption.

Central Office. The Central Office has completed a detailed study of its organization and procedures for meeting the responsibilities assigned to it. Although the number of its different activities has not been enlarged during the past year, the loads in certain areas have increased considerably. For example, the decision of the printers not to store and ship all back issues of APA journals has made it necessary to expand our own facilities to handle them. It is our prediction that changes in procedures introduced in the current year will make it possible to meet increased loads next year without increasing personnel—unless, of course, new responsibilities are assigned.

State Associations. This convention marks the beginning of a significant change in the formal liaison between APA and the various state psychological associations. The changes in APA By-Laws which discontinue the Conference of State Psychological Associations and establish direct representation of state associations on the Council of Representatives become effective at the end of the 1958 council meeting. If we can predict from their lively interest in psychological issues, many states will elect their Representatives so that they may be accredited to participate in the council's activities during the coming APA year. Next year, at

the Cincinnati convention, these State Representatives will take their places beside Division Representatives in council meeting, and a new phase in APA's representative government will be well underway.

New APA Boards. As you know, in 1957 important changes were introduced in the organization of APA. A Board of Professional Affairs and a Board of Scientific Affairs joined the Education and Training Board and the Publications Board at a very senior level in the association's structure. The needs for these two new boards had been under discussion for several years; the important contributions the boards have made during their first year of existence is evidence of the wisdom in creating them. The Board of Professional Affairs has come to grips with many problems involved in the development of psychology as a profession and in questions of ethics and social control. The Board of Scientific Affairs has been able to encourage and support activities of a scientific nature already underway, and it has started some broad planning of new ways in which the association can contribute to the development of the science. You may have noted that the first three volumes resulting from APA's study of psychology as a science will appear this autumn. Psychology will be one of the few sciences to have engaged in such a thorough self-evaluation.

And self-evaluation at this time in our development could pay off handsomely. We can no longer afford to wait for the exigencies of professional and public life to force decisions from us. Psychology has more opportunities than ever before to play a significant role in the affairs of the scientific and professional community.

**PROCEEDINGS OF THE
SIXTY-SIXTH ANNUAL BUSINESS MEETING OF THE
AMERICAN PSYCHOLOGICAL ASSOCIATION, INC.**

August 29 and September 2, 1958

Washington, D. C.

REPORT OF THE RECORDING SECRETARY

LAUNOR F. CARTER

System Development Corporation

The Annual Meeting of the Council of Representatives of the American Psychological Association was called to order at 9:00 A.M., August 29, 1958 by President Harry F. Harlow in the Mayflower Hotel, Washington, D. C. The second session convened at 9:00 A.M. on September 2. Prior to the Council meeting the Board of Directors met on August 25, 26, and 27; the Board also met intermittently throughout the convention.

The Board of Directors held its Spring Meeting on May 15, 16, and 17, 1958. The minutes of that meeting have been mimeographed and distributed to the Council, Board, and committee chairmen. To enable members to follow the actions of Council and of the Board during the year, the minutes of the Spring Meeting and of the Annual Meeting are consolidated in this report. Interested members may obtain a separate copy of the minutes of the Spring Meeting of the Board of Directors by directing a request to the APA Central Office.

Last year a new organization of the proceedings was adopted; this year's report follows the same general order with the following major headings:

- I. APPROVAL OF THE ANNUAL REPORT OF THE RECORDING SECRETARY FOR 1957
- II. ELECTIONS, AWARDS, AND APPOINTMENTS
- III. MEMBERSHIP, AFFILIATIONS, AND RELATED MATTERS
- IV. DIVISIONS
- V. ORGANIZATION AND STRUCTURE OF THE APA
- VI. PUBLICATIONS
- VII. ANNUAL CONVENTION
- VIII. EDUCATION AND TRAINING
- IX. PROFESSIONAL AFFAIRS
- X. SCIENTIFIC AFFAIRS

- XI. INTERNATIONAL RELATIONS
- XII. PUBLIC RELATIONS
- XIII. APA CENTRAL OFFICE
- XIV. FINANCIAL MATTERS
- XV. REPORTS OF OTHER BOARDS, COMMITTEES, REPRESENTATIVES AND DELEGATES, AND RELATED MATTERS

I. APPROVAL OF THE ANNUAL REPORT OF THE RECORDING SECRETARY FOR 1957

A. Council approved the Annual Report of the Recording Secretary for 1957 as printed in the *American Psychologist*, 1957, 12, 690-706.

B. The Board of Directors directed Council's attention to the minutes of the meeting of the Board of Directors, May 15-17, 1958, and preceding interim actions, as reported by the Recording Secretary and previously distributed to Council members, division officers, and chairmen of APA committees and boards.

II. ELECTIONS, AWARDS, AND APPOINTMENTS

A. Elections:

1. Council voted to receive the report of the Election Committee with thanks. The committee reported that Donald O. Hebb is the new President-elect of the APA. Launor Carter was re-elected Recording Secretary for a second term (1958-61).

2. The Recording Secretary reported that Council elected Edwin B. Newman and Nevitt Sanford as members of the Board of Directors for 1958-61.

3. Various committee members and chairmen of committees were elected by Council, by the several boards, or appointed by the President. The

membership of these committees is listed separately following these minutes.

4. The Election Committee reported the results of voting on By-Law changes submitted to the membership, as follows:

BALLOT	APPROVE	DISAPPROVE	TOTAL	% MAJORITY
To allow organizations to affiliate with APA	6,541	778	7,319	4,880
Abolition of CSPA and representation on Council of state associations	5,724	1,534	6,808	4,538
Removing Committee on Public Relations from list of standing committees	5,917	1,128	7,045	4,696
Provision for a committee to hear ethics cases	6,791	247	7,038	4,692
Clarifying terms of office on Council for members of Board of Directors	5,919	1,014	6,933	4,622
Proposal to provide for election of Members to APA offices	6,394	321	6,715	4,476

5. Council approved the following nominees for election to the American Board of Examiners in Professional Psychology, Inc., as proposed by ABEPP:

CLINICAL	COUNSELING	INDUSTRIAL
John E. Bell	Hugh M. Bell	Ralph Bender
Roberta Foster	Harold B. Pepinsky	Bernard J. Covner
Kenneth Little	Albert S. Thompson	John Gorsuch
Paul E. Meehl	Robert S. Waldrop	Raymond A. Katzell
Victor C. Raimy		John W. MacMillan
Read Tuddenham		Neil Warren
Milton Wexler		
Esther Whitman		

6. Council received a request from a member that the election ballot for President-elect be accompanied by an objective report of the candidates' scientific and professional activities, with the Board's recommendation that no action be taken:

the Board reported its sympathy with the goal of greater information, but its opposition on the grounds of the practical difficulties in preparing such reports. The request was tabled.

7. Council received the report of the Committee of Council to Consider the Nomination and Selection of Committee Chairmen with thanks for an excellent report and discharged the committee. In considering the committee's report, the Board voted, contrary to the recommendation of the committee, to continue the practice of placing an asterisk before the names of certain candidates. In the annual request to Council for nominations to committees, the Board intends in the future to also request Council to suggest committee chairmen. Likewise, the Board believes it wise to retain space for write-in candidates on ballots, even though such space is used infrequently.

B. Awards:

1. Council voted to receive the report of the Committee for Selecting the Recipients of Awards for Outstanding Contribution to Scientific Psychology with thanks. The recipients of the Awards for Outstanding Contributions to Psychology were: FRANK A. BEACH, PAUL E. MEEHL, and B. F. SKINNER.

2. Board reported to Council that in its annual report the Committee for Selecting the Recipients of Awards for Outstanding Contributions to Scientific Psychology raised a question regarding the interpretation of rules for selecting recipients. The Board voted that in interpreting the rules the committee should follow a general policy of diversity in selecting recipients, but that the rules be interpreted liberally so that overlapping in one area would not automatically be considered grounds for disqualifying all others in related fields.

C. Appointments:

1. The President appointed the APA representatives to various ceremonies and functions shown in the accompanying chart.

REPRESENTATIVE	OCCASION	DATE
Allen J. Sprow	Conference of American Scientific and Technical Abstracting and Indexing Services, Philadelphia, Pennsylvania	January 29-31, 1958
Paul F. Finner	Inauguration of Robert Manning Strozier as President of Florida State University, Tallahassee, Florida	February 21, 1958
William Seeman	Inauguration of Jack Stauffer Wilkes as President of Oklahoma City University, Oklahoma City, Oklahoma	March 6, 1958
Luther Craig Long	Susquehanna University Centennial Spring Convocation, Selinsgrove, Pennsylvania	March 25, 1958

Eula P. Egan	Inauguration of Henry King Stanford as President of Birmingham-Southern College, Birmingham, Alabama	April 11, 1958
Charles E. Swanson	Sixty-second Annual Meeting of the American Academy of Political and Social Science, Philadelphia, Pennsylvania	April 11-12, 1958
Warren G. Findley	Conference sponsored by the American Institute for Research on "Research into the Identification, Development, and Utilization of Human Talents," Washington, D. C.	April 12-13, 1958
Elizabeth Z. Johnson	Inauguration of Irving E. Lunger as President of Transylvania College, Lexington, Kentucky	April 15, 1958
Austin B. Wood	Inauguration of Ernest Weber as President of Polytechnic Institute of Brooklyn, Brooklyn, New York	April 19, 1958
Benjamin Shimberg	Meeting of the American Personnel and Guidance Association, St. Louis, Missouri	April 24, 1958
Joseph J. Ray	Inauguration of Stephen Junius Wright as President of Fisk University, Nashville, Tennessee	April 26, 1958
John Dollard	Fiftieth Anniversary of the founding of the Mental Health Movement, New Haven, Connecticut	April 29, 1958
Irene M. Olson	1958 Conference of the Woods Schools at the University of Minnesota, Minneapolis, Minnesota	May 2-3, 1958
Lionel M. Lazowick	Dedication of the new campus of Fresno State College, Fresno, California	May 9, 1958
T. Ernest Newland	Conference to consider plans of the American Education Research Association to form a Council for Research in Education, NEA Headquarters, Washington, D. C.	May 10, 1958
Reuben H. Fine	Annual Meeting and Award Presentation of the New York Society of Clinical Psychologists, New York City	May 24, 1958
C. Ray Carpenter	Department of Health, Education, and Welfare, Office of Education, Conference on Educational Television, Washington, D. C.	May 26-28, 1958
Jane D. Hildreth	Swearing-in of Bertha Adkins as Under-Secretary of Health, Education, and Welfare, Washington, D. C.	August 19, 1958

2. The Board of Directors took the following interim actions:

a. Appointment of Robert B. MacLeod as APA Representative to the fifth Congress of the Inter-American Society of Psychology. Approved funds from Carnegie Corporation grant for expenses

b. Appointment of Lorrin A. Riggs as APA Representative to the International Symposium on Chromatic Discrimination in Animals and Man. Approved use of \$300.00 from Carnegie Corporation grant for expenses

c. Appointment of John G. Darley as APA Representative to the Congress of Applied Psychology in Rome. Approved funds from Carnegie Corporation grant for expenses

d. Selection of Leonard Carmichael, Donald G. Marquis, and Dael Wolfe as suggested nominees for appointment to the National Science Board. The suggestions were presented in a letter to the President of the United States.

e. Appointment of Paul M. Fitts as APA Representative to the Annual Meeting of the Er-

gonomics Research Society in Bristol, England. Approved funds from Carnegie Corporation grant for expenses

f. Appointed Andie L. Knutson and Wallace E. Lambert as APA Representatives to the American Public Health Association Committee on Public Health and the Behavioral Sciences. Discharged with thanks the APA Joint Committee on Social Science in Public Health

g. Appointed David G. Ryans as APA Representative to participate in the thirteenth Annual National Conference of the National Commission on Teacher Education and Professional Standards, National Education Association, June 24-28

III. MEMBERSHIP, AFFILIATIONS, AND RELATED MATTERS

A. Membership:

1. Council voted that the report of the Membership Committee be received with special thanks and appreciation. It was reported that:

a. The APA was informed of the deaths of the following 45 members during the year:

LIFE	
E. Stanley Abbot	Herbert S. Langfeld
Ole N. deWeerd	Karl S. Lashley
F. M. Gregg	Louise E. Poull
Samuel P. Hayes, Sr.	George M. Stratton
FELLOWS	
Martha G. Colby	George Lawton
Michael Erdelyi	Lorenz Misbach
Else Frenkel-Brunswik	Henry W. Nissen
C. Frederick Hansen	Frank K. Shuttleworth
MEMBERS	
Richard L. Averill	Anthony R. Kraus
George Emil Bauder	Marjorie Bason Lean
Louise T. Beccaris	Rosemary N. Lippitt
M. Coralita Culliman	Robert J. Miner
Richard A. Duryea	Kenneth E. Norris
Thomas C. Edrington	Harry E. O'Neill, Jr.
George J. Fortune	John V. Quaranta
Lester H. Gliedman	Kenneth H. Rogers
Crawford Goldthwait	Donald A. Schultz
Phylis Haley	Carl Sternberg
Arthur S. Hill	Hazel E. Taylor
Harold S. Housman	Raymond B. Teixeira
Otis C. Ingebritsen	Derrick S. Trouton
Douglas M. Kelley	Henry Wunderlich
b. 293 members had resigned, of which 220 were for nonpayment of dues:	
FELLOWS	
Ann K. Gardner	Margaret M. Ratliff
Martin J. Nelson	Harry C. Steinmetz
Jacob S. Orleans	Llewellyn N. Wiley
MEMBERS	
Louis P. Aikman	C. B. Broderick
Harold W. Aldridge	Richard Thomas Brooke
Robert Bernard Aledort	J. Adger Brown
Earl Allgaier	Joyce E. Brueckel
Andras Angyal	Allan Franklin Bubeck
Fred G. Armstrong	Donald Ewen Cameron
Vern B. Arnold	Barbara S. Cannell
William S. Arnott	Carol R. Carlson
H. Koepf Baker	Thomas M. Carter
H. Leigh Baker	Ralph B. Cary
Robert Munson Baker	W. Leroy Cation
Lucy June Balian	Thelma F. Chalmers
Edgar T. Ballard	Barbara A. Chandler
Myra Marks Becker	James P. Chaplin
Shirley Schmidt Bellin	Harold A. Charvat
Georgia Bennett	Louis Checov
Isabel R. Berman	Victor A. Christopherson
Chester R. Bilinski	Rosalie A. Clark
Ada Gitomer Bloom	William D. Cobourn
Wiley S. Bolden	Leonard Cohen (Israel)
Carolina Martuscelli Bori	Donald A. Cook
Juliet Z. Bortner	Carolyn Cox
Michael Branzovich	Isabel Crawford
Rev. Marcel de Grandpre	
	Louis Della Valle
	Joseph J. De Lucia
	Joseph C. Deluhery
	Robert O. Delzell
	Rozanne O. Deutsch
	Naomi Winpenny Devlin
	Alyce Rachel DeVore
	Helen Mary DiMarco
	John P. Dolch
	Durward Aubrey Donahoo
	Rev. Joseph F. Doneel
	Georges Dufresne
	Howard W. Duke
	Charles Edward Dyer
	Katherine G. Ecob
	William F. Edington
	James W. Edmunds
	Herbert S. Eisenstein
	Marion Elderton
	Leon J. Epstein
	M. Frances Estep
	Ralph M. Evans
	Katherine K. Fassett
	Solomon S. Feldman
	James A. Fetzer
	Irene A. Fike
	Esther Needles Fine
	Harold A. Finkelstein
	Alice M. Ford
	Jane Couch Frank
	Rev. Patrick J. Frawley
	Harvey O. Freeman
	Thomas M. French
	S. Thomas Friedman
	Harold J. Froning
	Rafael A. Garcia-Palmieri
	Richard H. Gaylord
	Mary Jean Graham
	Weyler F. Greene
	Leverett L. Guess
	Charles P. Guichard
	Louis T. Guthrie
	Natalie Zinn Haar
	William V. Hagan
	A. Irving Hallowell
	Mary Alice Grobe Hansen
	Betty L. Harker
	George Harlow
	Raymond A. Harrison
	Robert O. Hatton
	Selma Helfand
	Martin Heller
	Cuyler M. Henderson
	Gordon H. Henderson
	Iris S. Henderson
	May Herrmann
	Robert P. Hinshaw
	George W. Hohl
	Therese A. Holmes
	James N. Hood
Edith Dombey Hopkins	
	Carole Christiansen Horn
	Gilbert Eugene Horton
	Margaret G. LeBas Howe
	Bill H. Huckabee
	Carroll E. Humphrey
	Shirley Power Ivy
	Edward V. James
	Gladys R. Jann
	George T. Jefferson
	Watkins F. John
	Virginia H. Johnson
	Anna May Jones
	Viola May Jones
	William E. Josey
	Georgina Junemann
	Bernard Kaplan
	Doris M. Kells
	Edmund J. Kennedy
	Nathaniel R. Kidder
	Clifford Kirkpatrick
	Joseph Kleinbaum
	Albert L. Klinge
	Henry L. Klipper
	Natalie Kneeland
	L. David Korb
	Milton Kramer
	Mary Wright Laurence
	Gavin Lawson
	Grace Colby Leonard
	Donald L. Leslie
	Stanley Levin
	Reuben Levinson
	Lovaine C. Lewis
	Mary Florence Lichliter
	Jessie M. Lightfoot
	Herbert R. Loewenthal
	Mary Elizabeth Lothschuetz
	Duane R. Lund
	F. H. Lund
	Theodore O. Macklin
	Shelton MacLeod
	Emma I. Madciff
	Winifred Katherine Magdick
	Ursula F. Mandelstam
	James G. Mason
	Jean F. Mateson
	Ignacio B. Matte
	Phyllis Narmore Matthews
	Jack E. Mauney
	Jack J. Mayer
	George L. McBride
	Walter R. McClanahan
	Kennon F. McCormick
	Chalmers A. McMahan
	Paul F. Menges
	Clara Z. Meyers
	Milton J. Miklas
	Ray A. Miller
	Theodore M. Mills

Murray Mitts
 John J. Mohn
 Charlie D. Moon
 Alfred L. Moseley
 Helen Pike Moser
 Genevieve M. Murphy
 Marguerite E. Murray
 Nancy B. Myers
 Elwyn H. Nagel
 Carlos Nassar
 Joan R. Nathan
 Irene B. Needham
 Dorothy L. Nelson
 Leon S. Nelson
 Victor A. Neugebauer
 Theresa J. Noller
 Mary L. Northway
 Henry Obel
 Donald Neil O'Connell
 Robert C. O'Donnell
 John R. O'Rourke
 William K. Orr
 Herbert F. Osborne
 Robert W. Oswald
 John H. Owen
 Aris T. Papas
 Verna E. Parker
 David Perez-Jusino
 Robert L. Petersen
 Lloyd C. Peterson
 William C. Peterson
 Herman A. Pieters
 John R. Pinkston
 Sylvia W. Post
 C. Edward Prince, Jr.
 David L. Quick
 Walter P. Rainey
 Ramon Ramirez-Lopez
 David Rauch
 William T. Raymond
 Ferdie D. Reddell
 Dennis J. Rosetti
 Golda Van Buskirk Ross
 Dorothy B. Ruhl
 Harry Ruja
 M. Gertrude Hayes Rutherford
 Herbert Lee Sachs
 John A. Salazar
 David G. Salten
 George Saslow
 Mary Grace Scher
 Otto L. Schlesinger
 John L. Schmidt
 John B. Schoolland
 Fabian X. Schupper
 Helen K. Schuyler
 Edward D. Schwade
 Henry W. Scoville, II
 Stanley J. Segal
 Katusha M. Setze

Jack Shaw
 Evelyn P. Shefter
 Winifred Odes Shepard
 William J. Silverman
 Betty B. Silvie
 George Siskind
 Leon B. Slater
 Raymond F. Sletto
 A. Arthur Smith
 Benjamin F. Smith
 Keith W. Smith
 William N. Smith
 James G. Snowden
 Robert T. Sone
 LeRoy W. Staylor
 Bernard Stern
 Frances S. Stiles
 Tyler E. Stovall
 Robert Strachan
 Mary Jane Strimple
 John M. Stroud
 Marvin I. Summer
 Robert D. Swan
 Benjamin Sweeting
 Johanna Krout Tabin
 Edwin Stewart Taylor
 Keith L. Taylor
 Esta B. Thomas
 Richard G. Thomas
 Cary A. Thompson, Jr.
 Florence M. Thompson
 Dale Tillary
 Robert M. Tomlinson
 Paul V. Trovillo
 Grant E. Tyte
 M. Eugene VanNostrand
 H. Richard Van Saun
 Mary B. Varley
 Carol P. Verven
 Howard Walker
 Paul Wallin
 David A. Warriner
 Helen L. Wauters
 Mildred Wellborn
 Richard G. Wells
 Lyle H. Wharton
 Robert T. Whitcomb
 Carlton E. Wilder
 Alexander C. Williams, Jr.
 Dean E. Williams
 Judith R. Williams
 Stanley S. Willing
 R. Stefanie Wilner
 Elizabeth K. Wilson
 Elnora Winfrey
 Everett Milton Woodman
 Donald Woods
 Lawrence G. Woodward
 G. Apollos Wortham
 Robert S. Zimmer

c. 23 former members were reinstated:

Gordon L. Beckstead
 Mary M. Bigelow
 Irwin L. Bloom
 Sam L. Campbell
 Grace Holmes Carlson
 Arthur Globe
 Lucille R. Guttman
 Janet R. Hodgkins
 Bernard M. Kramer
 Saul Lassoff
 Helen Mazzitelli
 Gildas E. Metour
 William C. Mitchell, Jr.
 Grace E. Munson
 Charles S. Roberts
 Irwin C. Rosen
 William A. Shaw
 Emanuel Skoor
 Mollie Stevens Smart
 Ruth S. Smith
 Thomas J. Snee
 Lloyd H. Strickland

d. 10 members were transferred to dues-exempt status:

Rose G. Anderson
 Elmer A. K. Culler
 Andrew MacPhail
 Florence Mateer
 Catharine Cox Miles
 Fred A. Moss
 Grace Munson
 Bessie B. Sergeant
 Gladys C. Schwesinger
 Paul Thomas Young

e. 1,354 new Members were elected as of January 1, 1958, their names having been printed in the *American Psychologist*, 1958, 12, 28-33.

f. 15 of the new Members failed to confirm their election by payment of dues:

Joseph Michael Angileri	Victor Hofberg
Nilton Campos	Charles Henry Lynch
Virginia Crawford Chancey	Thomas Basil Mulholland
May F. D'Amato	Herbert David Saltzstein
Alva Doris Ethington	Dorothy Catherine Sawyer
Everett Arthur Garvin	Robert Earl Stake
Martha E. Gresham	Marian B. Yeager
Alan Mitchell Hartman	

g. 72 Members were elected by the Council of Representatives to the status of Fellow effective January 1, 1959:

NAME	NOMINATING DIVISIONS
Malcolm Douglas Arnoult	Experimental
Edward Alfred Bilodeau	Experimental
Ruth F. Boland	School
Jack Botwinick	Maturity and Old Age
Douglas James Bowman	School
Martin Marc Bruce	Industrial
David Cohen (Coatsville)	Clinical
Douglas Courtney	Industrial
Gordon Frederick Derner	Clinical
Allen T. Dittmann	Clinical
Edmund Emil Dukek	Industrial
Helen Leslie Dunlap	School
Victor Benjamin Elkin	School
Carl Hartley Elliott	Industrial
Sidney J. Fields	Clinical
David H. Fils	School
Edward L. French	School

Wallace Gobetz	Counseling	John F. Winne	Evaluation and Measurement
Leonard Victor Gordon	Evaluation & Measurement,	Robert D. Wirt	Industrial
	Industrial	Lauren G. Wispe	Clinical
Mordecai Henry Gordon	Clinical		SPSSI
Bert Franklin Green	Experimental, Evaluation &		
	Measurement		
Milton Solomon Gurvitz	Clinical		
Emanuel F. Hammer	Clinical		
Gordon Hearn	SPSSI		
Alfred Felix Hertzka	Evaluation and Measure-		
	ment		
Charles Wadsworth Hill	Military		
Philip S. Holzman	Clinical	Sadie Aaron	NCPAD
Robert James Howell	Maturity and Old Age	Theodora M. Abel	NCPAD
Helen Hall Jennings	SPSSI	John R. Barry	Consulting, Public Service
R. Stewart Jones	Educational	Ernst G. Beier	Teaching
J. A. Morris Kimber	Clinical	Irwin A. Berg	Teaching
Herbert John Klausmeier	Educational	William C. Biel	Engineering
Leonard Saul Kogan	Evaluation and Measure-	Lucile Hollander Blum	NCPAD
	ment	Charles W. Bray	Engineering
William Sanford Kogan	Clinical	Donald Brieland	NCPAD
Herbert Ellis Krugman	Industrial	Robert Heath Brown	Engineering
Bernard Kutner	SPSSI	James F. T. Bugental	Consulting
Douglas Howard Lawrence	Experimental	Don C. Charles	Maturity and Old Age
John Melvin Leiman	Evaluation and Measure-	Louis David Cohen	Teaching, Maturity and Old
	ment		Age
Roger Thomas Lennon	Evaluation and Measure-	Lawrence Edwin Cole	Teaching
	ment	Emory Cowen	Clinical, NCPAD
Louis Samuel Levine	Clinical	William M. Cruickshank	NCPAD
Eugene E. Levitt	Personality and Social,	W. Grant Dahlstrom	NCPAD
	SPSSI	Henry P. David	Public Service
Harriet B. Linton	SPSSI	Arthur H. Davison	Consulting, Public Service
Frank Anderson Logan	Experimental	Harold Delp	NCPAD
Erwin J. Lotsof	Clinical	Salvatore G. DiMichael	NCPAD
Walter Robert Maher	Industrial	Herbert Dörken	Public Service
Leslie F. Malpass	Clinical	Jon Eisenson	NCPAD
Joseph D. Matarazzo	Clinical	Adolph Ekdahl	NCPAD
Milton William McCullough	Public Service	Albert Ellis	Counseling
Reed Miller Merrill	Counseling	Douglas G. Ellson	Teaching
Carmen Miller Michael	Clinical	Miriam Forster Fiedler	NCPAD
Horace Allen Page	Clinical	Warren Findley	School, Counseling
Ruth Simon Pasternack	School	Edwin A. Fleishman	Experimental
Alma A. Paulsen	School	Theodore W. Forbes	Engineering
Nathaniel J. Raskin	Clinical	Eric Gardner	Educational
Wilbur K. Rigby	Clinical	James F. Garrett	NCPAD
Leonard S. Rubin	Military	B. von Haller Gilmer	Teaching
Eli A. Rubinstein	Clinical	Robert Glaser	Engineering
Paul F. Secord	Personality and Social	Leonard Goodstein	Clinical
Leo Shatin	Clinical	Miriam C. Gould	NCPAD
James S. Simkin	Clinical	Alan Lewis Grey	Teaching
Ralph Simon	Clinical	J. Paul Guilford	Teaching
William Albert Sivers	School	Robert A. Harper	Consulting
Philip I. Sperling	Military	Daniel H. Harris	NCPAD
Lawrence H. Stewart	Counseling	George M. Haslerud	Maturity and Old Age
Janet Allison Taylor	Experimental	Robert M. Hughes	Consulting
Ralph H. Tindall	School	Thelma Hunt	Teaching
Richard Trumbull	Military	William A. Hunt	Educational
Ernest Cook Tupes	Evaluation and Measure-	Elizabeth Z. Johnson	Public Service
	ment	Gregory A. Kimble	Teaching
Charles Wenar	Clinical	Pearl G. Knapp	NCPAD
		Helen S. Lane	NCPAD

h. The following 102 persons, already Fellows of the APA, were nominated and elected by the divisions to the status of Fellow in the divisions indicated:

Edna Levine	NCPAD
Edith Lord	Public Service
Berthold Lowenfeld	NCPAD
Bertha Luckey	NCPAD
Robert W. Lundin	General
Robert B. MacLeod	Teaching
Morse P. Manson	NCPAD
Melvin R. Marks	Industrial and Business
Dorothy R. Martin	NCPAD
Stanley S. Marzolf	NCPAD
Kathryn E. Maxfield	School
Boyd McCandless	Engineering
Ernest J. McCormick	Educational
Wilbert J. McKeachie	Teaching
Louis L. McQuitty	Engineering
Arthur W. Melton	School, NCPAD
Lee Meyerson	Consulting
Harold Michal-Smith	NCPAD
Maurine R. Miller	Counseling
Kate Hevner Mueller	NCPAD
Frances Mullen	NCPAD
Helmer R. Myklebust	NCPAD
Peter J. Napoli	NCPAD
Yale S. Nathanson	NCPAD
T. E. Newland	NCPAD
Frances Parsons	NCPAD
Harold B. Pepinsky	Teaching
Rutherford B. Porter	Counseling
Gregory Razran	General
Anne Roe	Teaching
Morris Roseman	NCPAD
Isidor W. Scherer	NCPAD
Herman J. P. Schubert	NCPAD
Morton A. Seidenfeld	NCPAD
Edward Shulman	NCPAD
Paul S. Siegel	Experimental
Hirsch L. Silverman	Consulting
N. Norton Springer	Public Service
Harry L. Stein	School
Barbara M. Stewart	NCPAD
Charles R. Strother	NCPAD
Joseph Stubbins	NCPAD
Percival Symonds	School
Donald W. Taylor	Industrial and Business
Mildred Templin	NCPAD
Clare Wright Thompson	Teaching
Julius E. Uhlener	Experimental
Clair Myers Vernier	NCPAD
Robert S. Waldrop	NCPAD
Herman R. Weiss	NCPAD
Joseph M. Wepman	NCPAD
Mary Alice White	School
Beatrice A. Wright	NCPAD
M. Erik Wright	NCPAD

2. Council voted that:

- a. No certificate be issued to new Associates
- b. No certificate be issued to new Members, whether the status is granted as part of initial membership or whether by transfer as an Associate

c. All former Associates, who by Council action in September 1957 became Members as of January 1, 1958, be sent a form letter, addressed from our Addressograph system, informing them of the change in status

d. It did not approve the recommendation of the Membership Committee regarding the issuance of certificates to Fellows. This decision was made largely because of the expense that would be involved.

3. Board reported that it had directed the Executive Secretary to inform the presidents of all divisions that the standards for electing Fellows to a division should be the same regardless of whether or not the nominee is a Fellow in another division. This was done in June 1958.

4. Board reported that it had authorized the Central Office to reprint a one-year supply of all materials given to new members, except for the full text of the *Ethical Standards of Psychologists*.

5. Board reported that it voted that, in accordance with the new By-Laws on membership, the Central Office should prepare, for presentation to the Board, a list of those requesting to resign from the APA. Before presentation, the list shall be examined by the Committee on Scientific and Professional Ethics and the committee will note any appropriate information regarding those wishing to resign.

6. Council voted to receive the report of the Committee on Scientific and Professional Ethics and Conduct with thanks. Council adopted the following recommendations of the Committee on Scientific and Professional Ethics and Conduct:

a. Following the approval of a revised code by a mail vote of the Board of Directors, the new code formulated by the Committee on Ethical Standards of Psychologists be adopted provisionally for a period of three years

b. The Committee on Scientific and Professional Ethics and Conduct be instructed to attempt for this duration of three years to use the new code as a basis of its operations

c. The Committee on Ethical Standards of Psychologists be maintained in a standby capacity for these three years while the Committee on Scientific and Professional Ethics and Conduct communicates to it any problems for clarification raised by the operational use of the new code

d. A casebook be prepared from the decisions of the Committee on Scientific and Professional Ethics and Conduct

e. Since the substance of the old code and the new is the same, the *Ethical Standards of Psychologists* (1953) also be continued in force for the next three years while the new code is demonstrating itself in committee practice

f. The *Ethical Standards of Psychologists* be kept in print and available for educative purposes until a casebook has been accumulated, properly prepared, and published

7. Board reported that the problem regarding a revision of the By-Laws to provide for communication of action on ethics cases will be referred to the association's lawyer and thereafter submitted to the Policy and Planning Board for a simplified formulation for submission to the membership.

8. Board reported that the question of an increase in the number of members of the Committee on Scientific and Professional Ethics and Conduct has been referred to the Policy and Planning Board for consideration and, if favorably considered, submitted to the membership along with the question of communications.

9. Council endorsed the principle that, regarding the procedures for effecting transfer from Member status to Fellow status, the principle should be one of individual invitation rather than basing changes in status on the initiative of the Member; and Council asked the Membership Committee to communicate with divisions regarding the acceptability of this principle and possible procedures to make such a change effective.

B. Affiliations and Related Matters:

1. Council voted that Psi Chi be accepted as an affiliate of the APA.

2. Board reported that it voted not to affiliate with the American Society of Association Executives.

3. Board reported that it referred to the Board of Professional Affairs for recommendation the question involved in establishing liaison with the National Tuberculosis Association and with the American College of Neuropsychiatrists.

4. Council voted to postpone action on a request from the International Council of Women Psychologists for affiliation with the APA, and requested that the general question of the requirements and responsibilities of affiliates be formulated. It further voted that the Policy and Planning Board consider the financial implications of

affiliates relative to Central Office expense and possible contributions from affiliates.

IV. DIVISIONS

A. In view of the fact that the various formal requirements had been fulfilled, Council voted that the National Council on Psychological Aspects of Disability be a division of the APA.

B. Council received with thanks the reports from the following divisions:

- Division 1. Division of General Psychology
- Division 2. Division on the Teaching of Psychology
- Division 5. Division on Evaluation and Measurement
- Division 7. Division on Developmental Psychology
- Division 9. The Society for the Psychological Study of Social Issues—A Division of the APA
- Division 10. Division on Esthetics
- Division 12. Division of Clinical Psychology
- Division 13. Division of Consulting Psychology
- Division 15. Division of Educational Psychology
- Division 16. Division of School Psychologists
- Division 17. Division of Counseling Psychology
- Division 18. Division of Psychologists in Public Service
- Division 20. Division on Maturity and Old Age
- Division 21. The Society of Engineering Psychologists—A Division of the APA

C. Board reported that it had received with thanks the advice of Division 16 regarding the National Education Defense Act.

D. Council voted that the policy of soliciting the advice of divisions regarding nominations for committee membership be continued, and that the policy of having direct division nomination to committees not be adopted.

V. ORGANIZATION AND STRUCTURE OF THE APA

A. Council voted to receive the report of the Policy and Planning Board with thanks and ordered it published in the *American Psychologist*. In considering the recommendations of the P&PB, Council voted that it:

1. Accepted the sound wisdom of the Policy and Planning Board recommendations regarding action of the APA in exercising its responsibility in national affairs

2. Approved the minor changes in wording of the By-Laws regarding Fellows submitted to the membership for vote

3. Adopted Roberts' Rules of Order as the standing rules of the Council and of boards and committees of the association, insofar as they are applicable and are not inconsistent with the By-Laws

4. Authorized the President to appoint a Parliamentarian who may continue to serve at the pleasure of succeeding Presidents

5. Set 1962 as the date for the quinquennial review of the By-Laws and directed that appropriate steps be taken in 1961 to effect such a review

6. Affirmed the interpretation suggested by the Policy and Planning Board regarding the conditions under which a mail vote of Council is appropriate

7. Adopted the Policy and Planning Board's interpretation of authority regarding the wording of petitions

B. Council voted that it accepted with commendation the supplementary report of the Policy and Planning Board, "Future Needs of the APA Central Office."

1. Council authorized the Board of Directors to appoint a Committee on the APA Headquarters to investigate the several policy problems raised in the report, with the committee reporting at the 1959 Spring Meeting of the Board.

2. Board reported that it intends to appoint Meredith Crawford, Charles Cofer, and Jerry Carter as the members of the Committee on the APA Headquarters, with the members selecting their own Chairman.

3. Board reported that it authorized the publication in the *American Psychologist* of the P&PB supplementary report and requested Edwin B. Newman to expand the report to include background items on factors dictating the utilization of space in the Central Office.

C. Board reported that it authorized the Executive Secretary to expend the funds necessary for calling together a small group of experts to consider any appropriate program which should be recommended to the Board regarding the role of psychologists in the maintenance of peace.

D. Council voted that it recognized the necessity for continuing study of the APA divisional structure and requested the Policy and Planning Board to consider this problem and to report its deliberations at the next Annual Meeting of Council.

VI. PUBLICATIONS

A. Interim Actions of the Board of Directors:

1. Board approved a budget for the hiring of a secretary for the Editor of the *Journal of Experimental Psychology*; it approved the appointment of the secretary as an employee of the APA Central Office.

2. It rescinded its authorization to publish in the *American Psychologist* the Division 17 report on "Recommended Standards for Internships in Counseling Psychology," and directed that it be transmitted to the Education and Training Board for recommendations as to whether the standards should be adopted and published as APA standards.

3. It approved the following revisions in the 1958 expense budgets:

JOURNAL	BUDGET	CHANGE
J. Consulting Psychology	\$ —	\$ —*
J. Experimental Psychology	2,900	+ 1,150
Psychological Bulletin	750	+ 750 ^b
Psychological Review	500	+ 500 ^b

* Editor-elect will use budget already allocated for 1958.

^b Budget for use by Editors-elect.

B. Council voted to receive the report of the Publications Board with thanks and that:

1. The page allotments for calendar year 1959 be:

JOURNAL	PAGES	CHANGE
Contemporary Psychology	348	—
J. Abnormal & Social Psychology	832	+ 48
J. Applied Psychology	400	—
J. Comparative & Physiological	624	—
J. Consulting Psychology	576	+ 96
J. Educational Psychology	400	—
J. Experimental Psychology	800	—
Psychological Abstracts	1088	—
Psychological Bulletin	472	—
Psychological Monographs	480	—
Psychological Review	400	—

2. The editorial expense budgets for 1959 be:

JOURNAL	BUDGET	CHANGE
Contemporary Psychology	\$6,752	\$ + 387
J. Abnormal & Social Psychology	2,700	+ 150
J. Applied Psychology	200	- 50
J. Comparative & Physiological	1,925	+ 50
J. Consulting Psychology	1,385	+ 565
J. Educational Psychology	600	—
J. Experimental Psychology	2,900 ^a	—
Psychological Abstracts	—	—
Psychological Bulletin	680	—
Psychological Monographs	350	+ 50
Psychological Review	400	—

\$1,152

* Including \$150.00 for a meeting of the Editor and Associate Editors.

C. Board reported that:

1. Unused allotted pages for the *Psychological Abstracts* for 1958 may be carried over to 1959 to be used as they can be absorbed.

2. The personnel and budget requirements (other than for the Editor) of the *Psychological Abstracts* are considered a part of the APA Publications Office.

3. Beginning in 1959, page-cost rate for early publication of articles in APA journals will be set at thirty dollars (\$30.00) per page. The rate is based on current printing costs plus charges for processing manuscripts for printing.

4. It expressed to the Publications Board its satisfaction with the progress made in resolving the problem of film reviews in *Contemporary Psychology*.

5. It requested the Publications Board to study the distribution, by detailed categories, of the books reviewed in *Contemporary Psychology* and similarly books not so reviewed, to survey a sample of APA members regarding their desires concerning book reviews, and to consider the advisability of including highly technical reviews in APA journals other than *Contemporary Psychology*.

6. It approved the Publications Board request that the Board of Scientific Affairs instruct the Committee on Psychological Tests—with the Editors of the *Journal of Consulting Psychology* and of the *Journal of Educational Psychology* as consultants—to consider the general problem of reviews of tests in APA journals. In the meantime, the Editor of the *Journal of Consulting Psychology* is requested to continue reviewing tests in this journal.

7. It received with thanks the report on the *Psychological Abstracts* prepared by G. Miles Conrad and instructed the President to write Conrad, expressing the APA's appreciation for his report.

8. It noted with gratification the 1958 interim report of the *Psychological Abstracts* Advisory Committee of the Publications Board.

9. It requested the Publications Board to review the problems of husband-wife credit for the *Psychological Abstracts*, with the information that the Board of Directors does not tend to favor such credit. (The need for this review was obviated by the change in credit allowances on the dues statement—see Item XIV-P.)

D. Council voted that it approved assistants for Editors and reimbursement of the assistants in a

manner that is feasible and appropriate to the Editors' circumstances, including employment as APA Central Office employees and including payment of part-time assistants directly from the APA Central Office.

E. Council voted that the report of the Council of Editors be received with thanks.

F. Board reported that, at the suggestion of its author, the Board withdrew its request that the 1957 report of the Representative to the American Documentation Institute be published in the *American Psychologist*.

G. Council voted that:

1. An Editor be elected for the *Psychological Abstracts* whose functions include content policy, selection of abstractors, and long-range planning for the APA abstracting and information retrieval service

2. The Editor of *Psychological Abstracts* consider with the *Psychological Abstracts* Advisory Committee the further functions of the committee and make appropriate recommendations

VII. ANNUAL CONVENTION

A. Council voted that the report of the Convention Policy Committee be received with thanks and that:

1. In order that the lessons of past experience be available to those planning current and future conventions, the Convention Program Committee shall include the Past Convention Manager as well as the Past Chairman of the committee.

2. Council recommended to divisions that they designate divisional program chairmen at least a year before they are to assume office so that planning discussions for the next convention can be initiated during the week of the preceding convention; and that the lack of experience which handicaps divisional program chairmen could be minimized by adoption of a scheme of succession similar to that employed for the APA Convention Program Committee, whereby a member of the committee progresses from membership to the chairmanship over a three-year period, or such other rotation plan as seems feasible.

3. A distinction shall be made between the official program published in the *American Psychologist* and the *Convention Guide* (formerly, *Condensed Program*). The official program in the *American Psychologist* should present the substantive content of the convention (papers, symposia,

etc.) and should contain the abstracts of individual papers. There should be a separate section devoted to official notices and announcements. Information about convention arrangements and social events should be separated into a third section prepared and signed by the Convention Manager. There should be a fourth section which lists scientific and professional meetings which may be of interest to members but which are not sponsored by the APA. The Convention Program Committee should have discretionary power regarding the listing of meetings in two sections of the program, if so requested. The *Convention Guide*, to be distributed at the convention, should be a chronological listing of *all* programs and functions together with a complete index.

4. Council directed the Convention Program Committee to list pre- or post-convention sessions, limited attendance meetings, and meetings for which a fee is charged, provided the committee judges the meeting to be: (a) of interest to the membership, and (b) the requesting organization be nonprofit making, or governmental, or an organization affiliated with the APA.

5. Council approved the committee's recommendation that the order of listing of authors' names on joint papers should follow the principle that the person who will read the paper be listed first.

6. In order to assure adequate scientific screening of programs for which the APA may be held accountable by the public, all substantive programs should be submitted through an APA division, whether such programs are initiated by an individual or by some organization not an integral part of the APA.

7. Business meetings and presidential addresses for organizations not an integral part of APA should be scheduled at the discretion of the Convention Program Committee.

8. The time span of the convention should be allowed some flexibility to meet exigencies of space, but in no case should it exceed seven days.

9. The services of the APA Placement Office at the convention shall continue to be provided without charge to either employers or applicants.

10. Council reaffirmed its previous decision that a small registration fee not be charged to members who attend the Annual Convention.

11. The Central Office shall render such assistance to the Convention Program Committee as

is feasible in assigning rooms to meetings and other convention events.

12. The Central Office shall provide the Convention Manager with an advance of \$2,000 well before the start of the convention.

13. At the discretion of the Convention Program Committee, members may be granted free space for scientific exhibits and nonprofit journals may be granted free exhibit space, whenever requests for such space are received before a deadline to be announced by the committee in its "Call for Papers."

14. If possible, division business meetings should be scheduled before the final meeting of Council.

15. On recommendation of the committee, the practice of a receiving line of officers and directors of the association on APA Day shall be continued.

B. Board reported that the Convention Policy Committee had recommended that a position of Convention Manager be established in the Central Office. Council voted that an annual budget item of \$7,500, to include salary and expenses, be established for a part-time Convention Manager, with the Executive Secretary being authorized to employ a Convention Manager for a period of not more than three years, and that such Convention Manager operate under the general supervision of the Executive Secretary and be guided by the general policies of the Convention Policy Committee.

C. Council voted that it adopted the principles contained in the report of the APA Committee on the 1952 Washington Resolution, but that the Board of Directors should continue with its present procedures regarding the selection of convention sites. Council also voted that the committee be discharged with thanks.

D. Council resolved that the American Psychological Association express its genuine appreciation to the City of Washington, to the Washington Convention and Visitors Bureau, and to the Statler and Mayflower Hotels for the hospitality extended to the association during its sixty-sixth Annual Meeting; and Council further expressed its great appreciation to Sherman Ross and to his many colleagues on the Local Arrangements Committee for the remarkable efficiency and effectiveness with which the convention was organized, and to the Convention Program Committee for the excellent program of scientific and professional papers. And further, Council directed that a statement listing

the appropriate names of those who contributed to the local arrangements be prepared and published in the *American Psychologist*.

VIII. EDUCATION AND TRAINING

A. Interim Action of the Board of Directors:

1. Approved for publication in the *American Psychologist* the Education and Training Board article, "Criteria for Evaluating Training Programs in Clinical or Counseling Psychology"

2. Approved for publication in the *American Psychologist* a report on "Undergraduate Training for Psychologists"

3. Approved the E&TB recommendation that a contract and funds be accepted from the Veterans Administration for evaluation visits to practicum training programs in VA hospitals and clinics

4. Ranked proposals submitted by the Committee on Communication with High School Teachers for publishing, through the Wesleyan University Press, materials of a psychological nature for both high school teachers and students

5. Voted that the President should appoint a special editorial review committee for each of the articles arranged for by the Committee on Communication with High School Teachers and the Wesleyan University Press. Board further expressed its concern that these brochures should not appear to standardize or have the effect of standardizing opinion on the content or practice of psychology where there has been no official policy action by the APA.

B. Council voted that the report of the Education and Training Board be received with thanks and that:

1. Council approved that the Committee on Evaluation be enlarged to include nine members elected regularly for three-year terms. In order to provide for staggered terms, it was recommended that new members be elected for terms as suggested in the list of nominations submitted earlier: that is, one member for one year, two members for two years, and three members for three years.

2. The report on "Doctoral Programs in Psychology, 1957-58," after suitable editorial modification, shall be published as an article in the *American Psychologist*. The Board of Directors reported to Council that it concurred in the approval of the doctoral programs, as listed at four universities, and the practicum training programs in seven agencies.

C. Council voted that the Committee on Communication with High School Teachers be continued, that their report be received with thanks, and that the committee be asked to act as an editorial committee for the material on *Guidance and Counseling and the High School Teacher* being submitted to the Wesleyan University Press.

D. Council voted to recognize the special services of Ruth Strang and the committee for its role in the preparation of *Guidance and Counseling and the High School Teacher*.

E. Board reported that it had instructed the Executive Secretary to communicate to the American Educational Research Association its opinion that a Council for Research in Education can make an important contribution to the development of research, and that the APA would be interested in participating as a charter sponsor, provided adequate representation is given to associations of the several scholarly disciplines (such as sociology and anthropology) other than those primarily associated with education. Board further suggested that scholars primarily concerned with content fields such as mathematics be represented.

F. Board reported that it voted to co-sponsor with the American Association on Mental Deficiency a conference on the training of psychologists in the field of mental retardation. Board nominated Thomas McCulloch and S. A. Kirk (with Seymour Sarason as alternate) as Representatives in arranging for such a conference.

IX. PROFESSIONAL AFFAIRS

A. Council voted that the report of the Board of Professional Affairs be received with special commendation. Action on the BPA report and on the reports of committees reporting through the BPA follows:

B. Committee on Academic Freedom and Conditions of Employment: It was voted by BPA, and Board and Council concurred, that:

1. The progress report of the committee be received with thanks and the committee be urged to report at the earliest feasible time on the status of the case currently under its investigation

2. The BPA Chairman referred to the committee for its consideration and suggestions the matters dealing with the status and privileges of psychologists in the Air Force.

C. Committee on Ethical Standards of Psychologists:

1. It was voted by BPA, and Board and Council concurred, that:

a. The report of the committee be received with thanks, the committee receiving special commendation for the excellent document it has so painstakingly produced

b. The committee be placed in stand-by status with its present composition until such time as the membership at large has expressed its reactions to the proposed code

c. On publication of the committee report in the *American Psychologist*, the article be introduced by the last paragraph of page 6 of the committee report and, in addition, the text italicize those sections of pages 3 and 4 which describe the relationship of the new version to the existing code

d. The published version of the new code contain the minor revisions concurred in by the committee Chairman, to whom BPA is indebted for his appearance during the meeting

2. See III-A-6 for further action on the Code of Ethics.

D. Committee on Health and Accident Insurance:

1. It was voted by BPA, and Board and Council concurred, that the report of the committee be received with thanks.

2. Apropos of the committee's recommendation that there be established a category of membership entitled "member—not in good standing," Council voted adoption of the following policy statement:

Eligibility for participation in the APA Income Protection Plan is contingent upon membership in the association. When membership in the APA is terminated for any reason, including nonpayment of dues for two consecutive years, the insurance carrier shall be notified immediately of the termination of membership and hence eligibility for participation in the APA Income Protection Plan.

E. Committee on Mental Health Programs:

1. It was voted by BPA, and Board and Council concurred, that the progress report of the committee and the Chairman's report on the World Federation for Mental Health planning meeting for a World Mental Health Year in 1960 be received with thanks.

2. BPA has instructed the committee to explore ways in which APA can and should partici-

pate in a World Mental Health Year in 1960, reporting its recommendations to BPA.

F. Committee on Relations with the American Speech and Hearing Association:

1. It was voted by BPA to recommend, and Board and Council concurred, that:

a. The present committee be discontinued and in its stead there be appointed an APA Representative to the American Speech and Hearing Association

b. The Representative be Joseph M. Wepman

G. Committee on Relations between Psychology and Education: It was voted by BPA, and Board and Council concurred, that:

1. The report of the committee be received with thanks

2. The Board of Directors accepted the committee plan of action in principle, encouraging the committee to proceed along the lines suggested in its report.

3. BPA accepted the committee's request that a member of the committee be allotted time at the CSPA-BPA workshop for state association officers in order to offer the committee suggestion that state psychological associations effect closer liaison with state education associations.

H. Committee on the Relation of Psychology to Psychiatry:

1. It was voted by BPA, and Board and Council concurred, that:

a. The confidential report of the committee, as revised, be received with thanks

b. The committee be continued with its present composition, placed in stand-by status, and a budget be listed

c. The title of the committee be changed to "Committee on the Relation of the American Psychological Association to the American Psychiatric Association"

d. The Legislative Reporting Service, serving the useful function it does, continue to be the mechanism for alerting state association legislative committees to pertinent developments in their respective areas

2. Council voted that the annual report of the committee be received with thanks, that Council adopt the seven statements listed below as APA policy, and that the committee report be published in the *American Psychologist*. The statements of policy are:

1. Because all psychologists have an interest in the public image of psychology, and because state legislation which may define the practice and qualifications of psychologists inevitably shapes this public image, state associations contemplating new legislation or revisions of existing legislation are strongly urged to consult with the Central Office and with the national committee concerned with legislative principles, to the end that the impact and effect of alternative forms and provisions in state laws may be clearly understood at the state level.

In order to implement such collaborative planning in the interests of better legislation, it is directed that the Executive Secretary not only designate a member of the Central Office staff to serve as legislative consultant but also is authorized to send appropriate national committee members to the states for consultation when legislative issues arise. Such consultation should take into consideration, not only the most desirable forms of legislation, but also the fundamental question of the need for legislation in the particular evolutionary stage of development in the state involved.

2. The APA clearly states its intent to attempt to defeat amendments to basic science or medical practice acts that would restrict the role and practice of psychology. We have shown that such veto power can be mobilized; and, while it may not be a constructive step in interprofessional relations, it may be a necessary defensive maneuver.

3. With our present state laws as samples, the APA will undertake in the near future a study of the effects of these laws on the social control and public image of psychology. The assumptions underlying legislation are manifold: the elimination of quacks, the improvement of training and qualifications, the improvement of employment opportunities. However, these are still only assumptions, subject to some testing and verification or denial.

4. The APA goes on record as favoring continuing a vigorous program of implementation and enforcement of our present ethical code.

5. The APA goes on record as being ready where appropriate to join in the legal defense, and costs thereof, of any member engaged in professional practice who is charged with the practice of medicine in terms of psychotherapy. It is to be understood, in this connection, that one criterion of appropriateness is professional practice that is in conformity with the letter and spirit of our ethical code.

6. The APA goes on record in favor of allowing some present state laws to be repealed, rather than accepting amendments to them which would result in restricting or narrowly defining the role of psychology, or which would result in the identification as psychologists of individuals not properly qualified.

7. The APA indicates to its constituency and to the state societies its willingness to share with the states on an equitable basis the costs of such political and legal activities, where the state resources make such help necessary, and provided the state's legislative actions are consonant with the policies of the national association. Such costs clearly include authority, in some degree, for the Central Office to spend funds for investigation trips, field visits, and necessary legal consultations. If we are to act as a profession,

not only idealistically but also with political effectiveness, we must be prepared to pay the price.

I. Committee on Relations between Psychology and Religion: It was voted by BPA, and Board and Council concurred, that:

1. The report of the committee be received with thanks and, in view of its developing program, it be encouraged to proceed in selecting definite limited tasks

2. The committee establish its own system of rotation

J. Committee on Relations with the Social Work Profession: It was voted by BPA, and Board and Council concurred, that the report of the committee be received with thanks, its functions be continued, and it be encouraged to work progressively toward the establishment of close, effective communication and collaboration with the social work profession.

K. Committee on Retired Psychologists: It was voted by BPA, and Board and Council concurred, that:

1. Retired psychologists who so desire receive free listing in the *Employment Bulletin* at their request

2. The committee be urged to give further thought to ways in which BPA might be of continuing assistance to retired psychologists

L. Ad Hoc Planning Group on the Role of the APA in Mental Health Programs and Research: On the basis of an interim report by members of BPA who are also members of the ad hoc group, it was the consensus of BPA that the work of the ad hoc group was reaching closure and would provide the kind of policy statements and guidelines required by the Committee on Mental Health Programs in planning its future activity.

M. Committee on Scientific and Professional Responsibility: It was voted by BPA, and Board and Council concurred, that:

1. The report of the committee be received with thanks

2. The committee be encouraged to work toward the completion of the projects now under way

N. APA Members, Joint Committee on Social Science in Public Health: Board informed BPA that, on the basis of a recent mail ballot of the Board of Directors, Andie L. Knutson and Wallace E. Lambert had been appointed APA Representatives to the newly formed American Public Health Association Committee on Public Health and the

Behavioral Sciences. Council voted that, in view of the above, the present committee be discharged with special commendation for its part in having helped bring about a significant new development.

O. Joint Commission on Mental Illness and Health: Council voted that APA not make a contribution to the Joint Commission on Mental Illness and Health.

P. National Society for Crippled Children and Adults: It was voted by BPA, and Board and Council concurred, that the report of the Representative be received with thanks and that APA continue to provide liaison with the society.

Q. World Federation for Mental Health:

1. The interim report of the present Representative and the report of the Delegate to the WFMH planning meeting for a World Mental Health Year in 1960 were received with thanks.

2. BPA recommended, and the Board of Directors voted, that:

a. Anne Roe be appointed APA Delegate to the WFMH Steering Committee planning for a World Mental Health Year in 1960

b. The Committee on Mental Health Programs be instructed to explore ways in which APA can and should participate in a World Mental Health Year in 1960, reporting its recommendations to the Board of Professional Affairs

R. International Group for the Coordination of Psychiatry and Psychological Methods: BPA voted, and Board and Council concurred, that the Representative's report be received with thanks.

S. Actions on Recommendations Made to BPA by Executive Committee of CSPA: The Executive Committee of CSPA met on the day preceding the meeting of the Board of Professional Affairs. Its several recommendations to BPA were discussed in detail. BPA and Board recommended, and Council voted, that:

The Board of Professional Affairs should recognize that problems of primary interest to state associations rank high on its priority list of functions and responsibilities. Hence, to insure that the concerns of state associations receive adequate attention, and to facilitate effective communication between the Central Office and state associations, the Central Office has been requested to proceed as follows:

1. To designate one member of the Central Office staff "Administrative Officer, State and Professional Affairs"

2. To advise state associations of the Central Office services available to them, the latter to include visits by Cen-

tral Office personnel to state associations for consultation on local problems

3. To instruct the Editor of the *American Psychologist* to continue the section "Psychology in the States," with the name of the Administrative Officer, State and Professional Affairs to appear monthly in the column and the Chairman of the Board of Professional Affairs serving as Co-Editor

4. To inform state associations that, during the year of transition, members of BPA will accept invitations to visit state associations for purposes of consultation

T. Board reported that, on the recommendation of BPA, the Board of Directors voted that the matter of income tax deductibility be re-referred to the APA attorney for advice as to more appropriate bases on which exemption might be claimed for the several different types of psychological services.

U. Council referred to BPA for such action as it deems appropriate the appointment of a committee to study problems of private practice and the enforcement of APA standards with respect to qualifications and supervision.

V. The Board of Professional Affairs reported, and the Board of Directors concurred, that, until such time as BPA can review the over-all structure of the committees reporting through it to the Board of Directors, the following continue as ad hoc committees of BPA: Committee on Organization and Functioning of State Associations, Committee on Legislation, Committee on State Examination Procedures.

W. The Board of Professional Affairs recommended, the Board of Directors concurred, and the Council of Representatives voted to accept with deep appreciation the funds which CSPA has offered to contribute to APA for use in connection with state association affairs.

X. With reference to the election of state association Representatives to Council: BPA voted to subscribe to the recommendation of CSPA, the Board of Directors with certain amendments recommended, and Council voted that:

1. State associations be requested to start their nominating and election procedures immediately and that their Representatives on Council start serving from the time they are certified to the APA President and continue to serve until a rotation plan is adopted by Council

2. The Policy and Planning Board begin to formulate plans and procedures for the election of future state association Representatives to Council and for a rotation plan

3. APA furnish each state association once yearly a mailing tape of the APA members residing in the respective states

Y. As recommended by BPA and Board, Council voted that the issue of state association fiscal affairs be referred to the Policy and Planning Board with reference to assessments for services rendered by APA, and that in the interim states be requested to contribute to APA the funds previously contributed to CSPA.

Z. As recommended by BPA and Board, Council voted that, in place of individual allotments to BPA committees, an over-all budget of \$16,100 be assigned to BPA for appropriate distribution among its committees, the nonrecurring contribution from CSPA to be held in reserve.

X. SCIENTIFIC AFFAIRS

A. Council voted that the report of the Board of Scientific Affairs be received with thanks. Action on the BSA report and on the reports of committees reporting through BSA follows:

B. Advisory Committee on the Development and Status of Research and Education in Psychology:

1. It was voted that the report from the Chairman of the committee and from the Director of Project A be received with thanks.

2. BSA recommended and the Board of Directors at its Spring Meeting voted that:

a. The Chairman's suggestion that the committee be discharged not be accepted. BSA believed, and Board concurred, that the committee should continue as a supervisory group until Project A is completed.

b. The same committee membership be re-appointed for 1958-59

3. At its Spring Meeting, the Board of Directors voted that the Executive Secretary be authorized to expend such funds as are necessary to continue Project A until September 1958.

4. Council voted to accept a prepared statement regarding the progress of Project A and authorized \$6,200 as a final allocation for the completion of the project.

C. Committee on Precautions in Animal Experimentation:

1. It was voted by BSA, and Board and Council concurred, that the report of the committee be received with thanks.

2. On the recommendation of BSA and Board, Council voted that the committee be increased to

six members, the two senior members retiring annually.

3. On the recommendation of the BSA and Board, Council voted that APA contribute \$150.00 to the National Society for Medical Research.

D. Committee on Psychological Tests:

1. It was voted by BSA, and Board and Council concurred, that the report of the committee be received with thanks.

2. On the recommendation of BSA and Board, Council voted that the *Technical Recommendations for Psychological Tests and Diagnostic Techniques* not be revised in 1958-59. A continuing responsibility of the committee should be to recommend such revision when it becomes advisable.

E. American Standards Association Committee Z58 on Standardization of Optics:

1. BSA voted, and Board and Council concurred, that the report be received with thanks.

2. On the recommendation of BSA and Board, Council voted that, in view of an absence of activity during the past several years and the failure to receive replies to inquiries concerning the plans of the committee, APA representation be discontinued.

F. Committee on the Walter V. Bingham Lecture:

1. BSA voted, and Board and Council concurred, that the interim report be received with thanks.

2. The 1958 Bingham Lecture was held as scheduled at the University of Minnesota. Edward K. Strong spoke on the subject "Interests and Satisfactions."

3. The 1959 Bingham Lecture will be given at Stanford University by J. P. Guilford.

G. American Association for the Advancement of Science: BSA voted, and Board and Council concurred, that the Representatives' report be received with thanks.

H. Inter-Society Color Council: BSA voted, and board and council concurred, that the Representatives' report be received with special commendation.

I. National Research Council: BSA voted, and Board and Council concurred, that the Representatives' report be received with thanks.

J. Social Science Research Council: BSA voted, and Board and Council concurred, that the Representatives' report be received with thanks.

K. Scientific Manpower Commission: Council voted that, on the recommendation of the APA

Representative, the APA continue its affiliation with the Scientific Manpower Commission.

XI. INTERNATIONAL RELATIONS

A. Council voted that the report of the Committee on International Relations in Psychology be received with thanks.

B. On the recommendation of the Committee on International Relations in Psychology, Council voted that, regarding the appointment of official delegates to international meetings, this committee should act as the nominating body. The recommended procedure, subject to revision on the basis of experience, would be as follows:

1. Before the fall meeting of the committee, a list of forthcoming meetings, based on the National Science Foundation and other listings, would be prepared in the Central Office. This should, if possible, cover a period of 18 months.

2. At the fall meeting, priorities would be established and lists of nominees, with suitable alternates, prepared for submission by the Executive Secretary to the Board of Directors.

3. The Executive Secretary would have full responsibility for carrying out the decisions of the Board of Directors.

4. If an emergency were to arise—for example, if none of the nominees could serve or if an unexpected meeting were to be announced—the Executive Secretary would be authorized to act after consulting the Chairman of this committee, the member of the committee who is liaison with the Board of Directors, and possibly one other designated member.

C. Board reported that it voted not to send an official delegate to the 1958 meeting in Vienna of the World Federation for Mental Health. Board further voted that Rosalea A. Schonbar be invited to represent APA, but without a commitment of funds.

D. Board reported that it has authorized the Executive Secretary to include in the next dues bill a notice regarding the *International Directory of Psychologists*.

XII. PUBLIC RELATIONS

A. Council voted that the report of the Committee on Public Relations be received with thanks, and that the committee be discharged with thanks and commendation for its excellent work.

B. Council voted that the name of the Committee on Public Relations be changed to Committee on Public Information, to be charged with advising APA on public information policy.

C. Council voted to adopt as APA policy the amended "Statement of Policies and Objectives for Guiding Public Information Activities of the Science and Profession of Organized Psychology." The specific amendments voted include the deletion of the last sentence of Article IV and the second sentence of Article V.

D. Board reported that it referred to the Committee on Public Information the evaluation of any contribution to APA objectives that would be gained by officially participating in the National Mass Media Award Program of the Thomas Alva Edison Foundation.

E. Council voted that the Committee to Consider the Establishment of a Public Information Center for Psychology be discharged with thanks.

XIII. APA CENTRAL OFFICE

A. Board reported it had received with thanks an informal report from the Executive Secretary covering various aspects of building space, publications, and other Central Office activities.

B. Council voted that the report of the House Committee be received with thanks.

XIV. FINANCIAL MATTERS

A. Council voted that the report of the Finance Committee be received with thanks and that the following be approved:

1. The report submitted by the APA's Auditors
2. The building repair and maintenance budget be increased from \$1,500.00 to \$4,000.00 beginning in 1959. This recommendation was based upon experience with this item and was intended to make the budget item more realistic.

3. All building repairs be charged to current expense except those that actually increase the value of the building, which should be considered as capital expenditures

4. The probable functional life of the building is approximately 20 years, rather than the 40 originally estimated, and therefore the "Provision for Depreciation" be budgeted in 1959 at \$15,500.00

B. Board reviewed a member's request that dues for members in foreign countries be reduced, and Council voted not to approve this reduction.

C. Council voted to request ABEPP to study the deficits being sustained by ABEPP and to report to Council a long-term policy regarding efforts to reduce these deficits and to make suggestions regarding APA policy on this matter.

D. Board reported that it voted to make a loan of \$700.00, without interest, to the Maryland Psychological Association, Inc.

E. Council voted that APA contribute \$100.00 to the Scientific Manpower Commission.

F. Board reported that it authorized a budget of \$1,000.00 for 1958 for defraying the expenses of APA representatives to special events and asked the Executive Secretary to study the problem involved in such expenditures and to report to the Board.

G. Council voted that the dues of Associates be increased from \$16.00 to \$17.00, to include the \$1.00 paid to the first division an Associate may join.

H. Council voted that the report of the Ad Hoc Committee of Council on Special Convention Expenses be received with thanks, but that no action be taken regarding this matter.

I. Board reported it authorized the establishment of a separate bank account at the Riggs National Bank, Washington, D. C., for the 1958 APA Annual Convention.

J. Board reported it authorized giving the APA Accountant access to the APA safety deposit box.

K. Board reported it voted a budget of \$400.00 to defray the expenses of the APA Committee on the 1952 Washington Resolution.

L. Council voted to appoint Ernst and Ernst as Auditors for 1959.

M. Council voted that, as recommended by the Finance Committee, there be established a Fixed Assets Reserve Fund, a *Biographical Directory* Reserve Fund, a *Journal of Abnormal and Social Psychology* Reserve Fund, and an Operating Reserve Fund.

N. Council voted that the Budget for 1959 be approved as presented.

O. Council voted to inform the membership that on the basis of present projection of costs it probably will be necessary to increase dues in 1960: the amount of the increase is estimated to be approximately \$5.00.

P. Council voted that starting in January 1959, the Journal Subscription Credit to all classes of members be \$12.00 (\$4.00 for the *American Psy-*

chologist and \$8.00 for any other APA journals), with no special consideration beyond the usual membership rates for the *Psychological Abstracts*. This particular recommendation is made in consideration of an interpretation of the Post Office regulations regarding second-class mailing privileges.

XV. REPORTS OF OTHER BOARDS, COMMITTEES, REPRESENTATIVES AND DELEGATES, AND RELATED MATTERS

A. Interim Actions of the Board of Directors:

1. Approved publication in the *American Psychologist* of a report on "Graduate Training Programs in Evaluation and Measurement" submitted by Robert D. North on behalf of the Test Use Committee of Division 5

2. Approved publication in the *American Psychologist* of a report from K. S. Yum on the 1957 Conference of the United States Commission for UNESCO, provided certain revisions are made

3. Board voted that for 1959 the membership of committees reporting through BPA and BSA be elected by mail ballot of Council with the respective boards selecting the chairman of each committee.

B. Council voted to receive with thanks the report of the APA Representative to UNESCO.

C. Council voted *not* to include \$500 in the 1959 budget to defray the cost of voting membership in the National Federation of Science Abstracting and Indexing Services, although APA would be glad to participate as a nonvoting member, if the membership fee is nominal.

D. Council voted that the Representative's report to the American Documentation Institute be received with thanks.

E. Board reported it had voted that:

It is the responsibility of all committee chairmen to bring to the attention of the President and the Executive Secretary such pending or proposed legislation as seems to warrant action by APA. The Board of Directors instructs committee chairmen to refrain from making public expressions of opinion in their role as APA functionaries, unless so instructed by the President or Board of Directors.

F. Council voted that at the present time it would not authorize an additional loan of \$5,000 as requested by the American Board for Psychological Services, and further that Council authorized the President to appoint a three-member ad hoc committee to meet with the Board of Directors of ABPS to consider the functioning of ABPS and any future financial support to be given by APA.

REPORT OF THE TREASURER

MEREDITH P. CRAWFORD

Human Resources Research Office

I am pleased to make my first report to you as Treasurer. My comments will cover the last year completed and audited, the current year, and the next year. Our fiscal period is the calendar year.

1957

As of 31 December 1957 our Auditors, Ernst & Ernst, reported that our general operation showed an excess of income over expense of \$25,984.22. In addition, the excess of expense over income for the *Journal of Abnormal and Social Psychology* amounted to \$1,147.29.

1958

At its meeting in New York City last September, the Council of Representatives adopted a Budget for 1958 which anticipated an income of \$718,539.00 and an expenditure of \$635,175.00 to result in an excess of income over expense of \$83,364.00. We had planned to place \$36,000.00 of this in reserve and \$7,000.00 in a special reserve for the 1960 *Directory*. However, while we expect to realize 99% of our budgeted income and expect to exceed budgeted expenses by 2%, a number of necessary items of expense have been encountered during the year which were not included in the original Budget. The Board of Directors and the Council of Representatives approved the additional expenditures. The unbudgeted items, amounting to \$44,640.00, are represented by four items:

Support for Project A: "The Analysis of Psychological Science"	\$15,240.00
Publications, increased expenses	4,400.00
Business Consultant, for management survey of Central Office	5,000.00
Additional staff for Central Office	20,000.00
	\$44,640.00

These expenses are partly offset by an advance of \$5,000.00 on royalties from Project A publications. Thus, we now expect an excess of income over expense of some \$22,000.00. This will not

allow us to place as much in reserves as we desired. Specifically, we will not be able to place in the General Reserve Fund the entire 5% of total income (\$36,000.00), which is an objective previously adopted by the Council of Representatives, nor will we be able to put aside the Special Reserve for the 1960 *Directory* (\$7,000.00). Long-term investments totaled \$96,602.00.

1959

The Council of Representatives approved a Budget for 1959 as follows:

Income:

Dues and fees	\$395,950.00
Journal subscriptions	222,541.00
Journal publication	60,150.00
<i>Employment Bulletin and Directory</i>	23,300.00
Other publications	3,000.00
Nonpublications	26,600.00
	<hr/>
Total income	\$731,541.00

Expense:

Publication	\$335,825.00
Central Office	259,075.00
General APA activities	64,100.00
Boards and committees	44,700.00
Building expense	33,350.00
	<hr/>
Total expense	\$737,050.00

Excess of Expense over Income

(\$ 5,509)

While this deficit will not allow us to put the desired 5% of income (\$36,400.00) into the Reserve Fund nor the anticipated \$7,000.00 into the *Directory* Reserve, it should be noted that an amount of \$15,500.00 is budgeted for Depreciation Allowance on our building and \$6,500.00 on Furniture and Fixtures. The depreciation does not constitute a cash outlay for the year, but this amount of money will be placed in a cash reserve. This reserve will be a Fixed Asset Reserve, to be used for future expansion purposes.

During the current council meetings, the Post Office regulations concerning second-class mailing

privileges were considered. The interpretation is that an association such as APA cannot use our present postal rates if journals are sold to members for less than half their cost to nonmember subscribers. This has, in effect, been true of the member subscriptions to the *Psychological Abstracts*, advertised for \$16.00 but delivered to members for \$4.00. Council therefore voted that, starting in January 1959, the Journal Subscription

Credit to all classes of members be \$12.00 with no special consideration beyond the usual membership rates for the *Psychological Abstracts*. Also, council voted that dues of Associates be set at \$17.00.

Because of rising costs, the Council of Representatives voted that the membership be informed that it will probably be necessary to increase dues in 1960. The amount of this increase is estimated at approximately \$5.00.

OFFICERS, BOARDS, COMMITTEES, AND REPRESENTATIVES OF THE AMERICAN PSYCHOLOGICAL ASSOCIATION

1958-1959

APA OFFICERS¹

President: Wolfgang Köhler (1958-59)
Dartmouth College

President-elect: D. O. Hebb (1958-59)
McGill University

Past President: Harry F. Harlow (1958-59)
University of Wisconsin

Recording Secretary: Launor F. Carter (1955-61)
System Development Corporation

Treasurer: Meredith P. Crawford (1957-62)
Human Resources Research Office

Executive Secretary: Roger W. Russell (1956-61)
APA Central Office

BOARD OF DIRECTORS

The *President*, the *President-elect*, the *Past President*, the *Recording Secretary*, the *Treasurer*, the *Executive Secretary*, and

Anne Anastasi (1956-59)
Harold M. Hildreth (1956-59)
Gardner Murphy (1957-60)
Robert L. Thorndike (1957-60)
Edwin B. Newman (1958-61)
Nevitt Sanford (1958-61)

COUNCIL OF REPRESENTATIVES

The Council of Representatives is composed of the Board of Directors, *Division Representatives*, *Special Representatives*, and *State Association Representatives*. The *Representatives* for the current year (the list of *State Association Representatives* is not yet complete), with term of office, follow:

Anne Anastasi (1958-59)—Board of Directors
Solomon E. Asch (1958-61)—Div. 8
E. J. Asher (1958-59)—Indiana
Arthur J. Bachrach (1958-59)—Virginia
Donald E. Baier (1956-59)—Div. 14
Alfred L. Baldwin (1957-60)—Div. 7
Phyllis F. Bartelme (1958-60)—Div. 22
Brent Baxter (1958-61)—Div. 14
George K. Bennett (1957-60)—Div. 13
Helen Bogardus (1957-60)—Div. 16
Edward S. Bordin (1957-60)—Div. 17

¹ Terms listed begin after the Annual Meeting.

Jack Botwinick (1958-61)—Div. 20
John B. Carroll (1958-61)—Div. 5
Launor F. Carter (1955-61)—*Recording Secretary*
Alphonse Chapanis (1957-60)—Div. 21
Richard Christie (1957-60)—Div. 8
Aldrena Beatrix Cobb (1958-59)—Texas
Arthur W. Combs (1958-61)—Div. 15
John J. Conger (1958-59)—Colorado
Meredith P. Crawford (1957-62)—*Treasurer*
Orlo L. Crissey (1957-60)—Div. 14
John T. Dailey (1956-59)—Div. 19
John G. Darley (1956-59)—Div. 17
M. Ray Denny (1958-59)—Michigan
Forrest L. Dimmick (1958-59)—Connecticut
Raleigh M. Drake (1956-59)—Div. 10
James H. Elder (1958-59)—Washington
William K. Estes (1957-60)—Div. 3
Frank M. Fletcher, Jr. (1958-61)—Div. 17
Robert L. French (1958-61)—Div. 8
Eric F. Gardner (1957-60)—Div. 5
Ann M. Garner (1957-60)—Div. 12
David A. Grant (1958-61)—Div. 3
Florence C. Halpern (1956-59)—Div. 12
Harry F. Harlow (1958-59)—*Past President*
Robert S. Harper (1957-60)—Div. 2
Robert J. Havighurst (1956-59)—Div. 15
D. O. Hebb (1958-59)—*President-elect*
Harry Nelson (1957-60)—Div. 1
Joseph S. Herrington (1958-59)—Pennsylvania
Harold M. Hildreth (1958-59)—Board of Directors
Nicholas Hobbs (1958-61)—Div. 12
Merrill T. Hollinshead (1958-59)—New Jersey
John E. Horrocks (1957-60)—Div. 15
Paul Horst (1957-60)—Div. 5
Ruth M. Hubbard (1957-60)—Div. 13
Arthur T. Jersild (1957-60)—Div. 7
Daniel Katz (1958-61)—Div. 8
E. Lowell Kelly (1958-61)—Div. 12
Gregory A. Kimble (1958-59)—North Carolina
Wolfgang Köhler (1958-59)—*President*
Samuel B. Kutash (1956-59)—Div. 12
Robert W. Leeper (1956-59)—Div. 1
Clarence J. Leuba (1958-59)—Ohio

- Bertha M. Luckey (1956-59)—Div. 16
 Robert W. Lundin (1958-61)—Div. 10
 W. J. McKeachie (1956-59)—Div. 2
 Quinn McNemar (1956-59)—Div. 5
 William E. Martin (1956-59)—Div. 7
 Abraham H. Maslow (1958-61)—Div. 9
 Rudolph Mathias (1958-59)—Wisconsin
 Leonard C. Mead (1957-60)—Div. 19
 Ivan N. Mensh (1957-60)—Div. 12
 Gardner Murphy (1958-60)—Board of Directors
 W. D. Neff (1956-59)—Div. 3
 T. Ernest Newland (1957-60)—Div. 16
 Edwin B. Newman (1957-60)—Div. 3
 Harry J. Older (1957-59)—Div. 21
 Harold B. Pepinsky (1957-60)—Div. 17
 F. Theodore Perkins (1958-59)—California
 Keith J. Perkins (1958-61)—Div. 16
 W. C. H. Prentice (1958-61)—Div. 1
 Donald K. Pumroy (1958-59)—Maryland
 Marian Radke-Yarrow (1958-61)—Div. 7
 Victor C. Raimy (1958-61)—Div. 12
 Donald A. Ramsdell (1958-59)—Massachusetts
 Lawrence S. Rogers (1956-59)—Div. 18
 Milton Rokeach (1958-59)—Div. 9
 Roger W. Russell (1956-61)—*Executive Secretary*
 Nevitt Sanford (1956-59)—Div. 8
 Morton A. Seidenfeld (1958-61)—Div. 22
 M. Brewster Smith (1957-60)—Div. 9
 George S. Speer (1958-59)—Illinois
 Ross Stagner (1958-61)—Div. 14
 Robert L. Thorndike (1958-60)—Board of Directors
 Frances O. Triggs (1957-60)—Div. 18
 Jacob Tuckman (1958-61)—Div. 20
 Robert S. Waldrop (1958-60)—Div. 17
 John L. Wallen (1958-59)—Oregon
 Goodwin Watson (1958-61)—Div. 9
 Wilse B. Webb (1958-59)—Florida

BOARDS, COMMITTEES, AND REPRESENTATIVES TO OTHER ORGANIZATIONS REPORTING THROUGH THE BOARD OF DIRECTORS

STANDING BOARDS AND COMMITTEES

COUNCIL OF EDITORS

The Council of Editors consists of the *Editors* of the APA journals:²

² Terms are for calendar years listed.

- American Psychologist:* Roger W. Russell (1956-61)
Contemporary Psychology: Edwin G. Boring (1956-61)
Journal of Abnormal and Social Psychology: M. Brewster Smith (1956-61), *Chairman*
Journal of Applied Psychology: John G. Darley (1955-60)
Journal of Comparative and Physiological Psychology: Harry F. Harlow (1951-62)
Journal of Consulting Psychology: Edward S. Bordin (1959-64)
Journal of Educational Psychology: Raymond G. Kuhlen (1958-63)
Journal of Experimental Psychology: Arthur W. Melton (1951-62)
Psychological Abstracts: (*Editor* to be elected)
Psychological Bulletin: Harry Nelson (1959-64)
Psychological Monographs: General and Applied: Norman L. Munn (1958-63)
Psychological Review: Richard L. Solomon (1959-64)
Managing Editor of APA Publications: Arthur C. Hoffman

POLICY AND PLANNING BOARD

- Charles W. Bray (1956-59), *Chairman*
 Harold M. Hildreth (1956-59)
 Fillmore H. Sanford (1956-59)
 Kenneth E. Clark (1957-60)
 George A. Kelly (1957-60)
 John T. Wilson (1957-60)
 W. J. McKeachie (1958-61)
 Norman L. Munn (1958-61)
 Otto Klineberg (1958-61)

PUBLICATIONS BOARD

- APA Editors:*¹
 Wayne Dennis (1957-59)
 Arthur W. Melton (1957-60)
 Edward S. Bordin (1958-61)

- Noneditors:*¹
 Gardner Lindzey (1956-59), *Chairman*
 Kenneth MacCorquodale (1956-59)
 Charles Eriksen (1957-60)
 Francis W. Irwin (1957-60)
 Allen L. Edwards (1958-61)
 Clifford T. Morgan (1958-61)

Roger W. Russell (1956-61), *ex officio*
 Meredith P. Crawford (1957-62), *ex officio*

CONVENTION PROGRAM COMMITTEE

George W. Albee (1955-59)
 Thomas G. Andrews (1956-59), *Chairman*
 Sherman Ross (1958-59)
 Harold Guetzkow (1958-60)
 Fred S. Keller (1958-61)
 D. O. Hebb, *ex officio*
 Howard B. Lyman, *Convention Manager*
 (1959)

ELECTION COMMITTEE

Theodore M. Newcomb (1956-59)
 Lee J. Cronbach (1957-60)
 Harry F. Harlow (1958-61), *Chairman*

FINANCE COMMITTEE

John M. Stalnaker (1956-59)
 George K. Bennett (1957-60)
 S. Rains Wallace (1958-61)
 Meredith P. Crawford (1957-62), *Chairman*

MEMBERSHIP COMMITTEE

Edward A. Rundquist (1956-59), *Chairman*
 Dorothy M. Clendenen (1957-60)
 Robert L. Thorndike (1957-60)

COMMITTEE ON SCIENTIFIC AND PROFESSIONAL ETHICS AND CONDUCT

J. McV. Hunt (1954-59)
 Leo J. Postman (1955-60)
 Harold C. Taylor (1956-61), *Chairman*
 Marion E. Bunch (1957-62)
 Edward M. Glaser (1958-63)

SPECIAL BOARDS AND COMMITTEES³

BOARD OF PROFESSIONAL AFFAIRS

John G. Darley (1957-59), *Chairman*
 George S. Speer (1957-59)
 Albert S. Thompson (1957-59)
 John W. Gustad (1957-60)
 E. Lowell Kelly (1957-60)
 M. Curtis Langhorne (1957-60)

³ Special boards and committees are those boards and committees appointed by the Council of Representatives or the Boards of Directors, but not required by the By-Laws.

Joseph M. Bobbitt (1958-61)
 William A. Hunt (1958-61)
 S. Rains Wallace (1958-61)

BOARD OF SCIENTIFIC AFFAIRS

Dorwin Cartwright (1957-59), *Chairman*
 Donald Lindsley (1957-59)
 Paul M. Fitts (1957-60)
 Lyle V. Jones (1957-60)
 Judson S. Brown (1958-61)
 Calvin S. Hall (1958-61)

EDUCATION AND TRAINING BOARD

Neil R. Bartlett (1956-59)
 Irwin A. Berg (1958-59)
 Noble H. Kelley (1956-59)
 Sherman Ross (1956-59)
 Robert W. Leeper (1957-60)
 Eliot F. Rodnick (1957-60), *Chairman*
 Richard L. Solomon (1957-60)
 Wayne H. Holtzman (1958-61)
 Boyd R. McCandless (1958-61)
 Carl Pfaffmann (1958-61)
 Bruce V. Moore, *Executive Officer*

COMMITTEE ON EVALUATION

Irwin A. Berg (1956-59), *Chairman*
 Howard F. Hunt (1957-59)
 Carroll A. Whitmer (1956-59)
 Ralph W. Heine (1957-60)
 Gardner Lindzey (1957-60)
 Kenneth MacCorquodale (1957-60)
 Sidney W. Bijou (1958-61)
 Samuel Kutash (1958-61)
 Anne Roe (1958-61)
 Bruce V. Moore, *ex officio*

COMMITTEE ON COMMUNICATION WITH HIGH SCHOOL TEACHERS

Robert H. Knapp (1957), *Chairman*
 W. J. McKeachie (1957)
 Albert S. Thompson (1957)

COMMITTEE ON CONSTITUTIONAL ISSUES

Theodore M. Newcomb (1957-59)
 Lee J. Cronbach (1957-60)
 Harry F. Harlow (1958-61), *Chairman*

CONVENTION POLICY COMMITTEE

- Joseph E. Barmack (1957)
 Lorraine Bouthilet (1958)
 Herbert Dörken (1958)
 Eleanor J. Gibson (1958)
 George W. Albee (1958-59), *Chairman*
 Sherman Ross (1958-59)
 Thomas G. Andrews (1958-59), *ex officio*

HOUSE COMMITTEE

- John W. Gustad (1956-59), *Chairman*
 Charles Cofer (1957-60)
 Edward A. Rundquist (1958-61)
 Roger W. Russell, *ex officio*

COMMITTEE ON INTERNATIONAL RELATIONS IN PSYCHOLOGY

- Jerome S. Bruner (1956-59)
 Willard C. Olson (1956-59), *Chairman*
 Lee J. Cronbach (1957-60)
 Frank A. Geldard (1957-60)
 Leonard Carmichael (1958-61)
 Otto Klineberg (1958-61)
 Roger W. Russell, *ex officio*

Corresponding Members:

- Eugene H. Jacobson, Paris, France
 Howard E. Page, London, England

COMMITTEE ON PUBLIC INFORMATION

- Edward Joseph Shoben, Jr. (1956-59), *Chairman*
 Irwin A. Berg (1957-60)
 Wallace H. Wulfeck (1958-61)

COMMITTEE ON THE APA HEADQUARTERS

- Jerry W. Carter (1958)
 Charles N. Cofer (1958)
 Meredith P. Crawford (1958)

REPRESENTATIVES TO OTHER ORGANIZATIONS
AMERICAN DOCUMENTATION INSTITUTE

- Lorraine Bouthilet (1954)

INTERNATIONAL UNION OF SCIENTIFIC PSYCHOLOGY

- Roger W. Russell (1956)
 James J. Gibson (1958)

UNITED STATES COMMISSION FOR UNESCO²
Donald G. Marquis (1955-60)

COMMITTEES AND REPRESENTATIVES TO OTHER ORGANIZATIONS REPORTING THROUGH THE BOARD OF PROFESSIONAL AFFAIRS

COMMITTEES

COMMITTEE ON ACADEMIC FREEDOM AND CONDITIONS OF EMPLOYMENT

- Edwin B. Newman (1954-59)
 Charles E. Osgood (1955-60)
 James J. Gibson (1956-61)
 Stuart W. Cook (1957-62), *Chairman*
 Solomon E. Asch (1958-63)

COMMITTEE ON ETHICAL STANDARDS OF PSYCHOLOGISTS

- Gordon V. Anderson (1955)
 John E. Anderson (1955)
 Melvin S. Hattwick (1955)
 Wayne H. Holtzman (1955), *Chairman*
 Arthur L. Irion (1955)
 Herbert J. Schlesinger (1955)
 John I. Wheeler, Jr. (1955)

COMMITTEE ON HEALTH AND ACCIDENT INSURANCE

- Benjamin Shimberg (1953), *Chairman*
 Carl H. Rush, Jr. (1956)
 Paul W. Thayer (1957)

COMMITTEE ON MENTAL HEALTH PROGRAMS

- Arthur J. Bindman (1956-59), *Chairman*
 Jerry W. Carter (1956-59)
 J. Wilbert Edgerton (1956-59)
 Dorothea McCarthy (1957-60)
 Ivan N. Mensh (1957-60)
 Wayne H. Holtzman (1958-61)
 William F. Soskin (1958-61)

COMMITTEE ON RELATIONS BETWEEN PSYCHOLOGY AND EDUCATION

- Warren G. Findley (1955)
 T. Ernest Newland (1955), *Chairman*
 William C. Morse (1957)
 Paul A. Witty (1957)
 Paul Woodring (1957)
 David A. Grant (1958)
 Ronald Lippitt (1958)
 Nevitt Sanford (1958)

COMMITTEE ON RELATIONS WITH THE AMERICAN PSYCHIATRIC ASSOCIATION

John G. Darley (1951), *Chairman*
 George A. Kelly (1953)
 Nevitt Sanford (1953)
 Milton Wexler (1953)
 Stuart W. Cook (1957)
 Carlyle F. Jacobsen (1957)
 Roger W. Russell, *ex officio*

COMMITTEE ON RELATIONS BETWEEN PSYCHOLOGY AND RELIGION

William C. Bier (1956), *Chairman*
 Walter Houston Clark (1956)
 David D. Eitzen (1956)
 Henry E. Kagan (1956)
 Noel Mailloux (1956)
 Kenneth W. Mann (1956)
 Paul E. Meehl (1958)
 Edward Joseph Shoben, Jr. (1958)

COMMITTEE ON RELATIONS WITH THE SOCIAL WORK PROFESSION

Ruth J. Levy (1956-59)
 Julius Seeman (1956-59)
 Leonard S. Kogan (1957-60)
 Howard E. Mitchell (1957-60), *Chairman*

COMMITTEE ON RETIRED PSYCHOLOGISTS

Karl F. Muenzinger (1956-59)
 Edward K. Strong, Jr. (1956-59)
 Arthur I. Gates (1957-60)
 Donald G. Paterson (1957-60), *Chairman*
 Karl M. Dallenbach (1958-61)
 John F. Dashiell (1958-61)

AD HOC PLANNING GROUP ON THE ROLE OF APA IN MENTAL HEALTH PROGRAMS AND RESEARCH

Jerry W. Carter, Jr. (1956)
 Harold M. Hildreth (1956), *Chairman*
 Andie L. Knutson (1956)
 Fillmore H. Sanford (1956)
 Laurence F. Shaffer (1956)
 M. Brewster Smith (1956)
 Albert S. Thompson (1956)

COMMITTEE ON SCIENTIFIC AND PROFESSIONAL RESPONSIBILITY

Angus Campbell (1955)
 Thomas Gordon (1955)

Rollo May (1955)

James G. Miller (1955), *Chairman*
 Paul M. Fitts (1956)

REPRESENTATIVES TO OTHER ORGANIZATIONS

AMERICAN PUBLIC HEALTH ASSOCIATION COMMITTEE ON PUBLIC HEALTH AND THE BEHAVIORAL SCIENCES

Andie L. Knutson (1958)
 Wallace E. Lambert (1958)

AMERICAN SPEECH AND HEARING ASSOCIATION

Joseph M. Wepman (1958)

INTERNATIONAL GROUP FOR THE COORDINATION OF PSYCHIATRY AND PSYCHOLOGICAL METHODS

Saul Rosenzweig (1955)

JOINT COMMISSION ON MENTAL ILLNESS AND HEALTH

Nicholas Hobbs (1955)

NATIONAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS

Lloyd M. Dunn (1956), *Representative*
 George W. Hohmann (1956), *Alternate*

WORLD FEDERATION FOR MENTAL HEALTH

Anne Roe (1958)

COMMITTEES AND REPRESENTATIVES TO OTHER ORGANIZATIONS REPORTING THROUGH THE BOARD OF SCIENTIFIC AFFAIRS
COMMITTEES¹

COMMITTEE FOR SELECTING THE RECIPIENTS OF AWARDS FOR OUTSTANDING CONTRIBUTION TO SCIENTIFIC PSYCHOLOGY

Harold S. Schlosberg (1957-59), *Chairman*
 Edwin G. Boring (1958-59)
 Lee J. Cronbach (1958-59)
 Richard S. Crutchfield (1958-59)
 William A. Hunt (1958-59)

ADVISORY COMMITTEE ON THE DEVELOPMENT AND STATUS OF RESEARCH AND EDUCATION IN PSYCHOLOGY

Clarence H. Graham (1952)
 Lyle H. Lanier (1952)

Robert B. MacLeod (1952)
 Eliot H. Rodnick (1952)
 M. Brewster Smith (1952)
 Dael Wolfe (1952), *Chairman*

COMMITTEE ON PRECAUTIONS IN ANIMAL EXPERIMENTATION

Harry Braun (1957-)
 Douglas H. Lawrence (1956-), *Chairman*
 Robert J. McCleary (1958-)
 Haldor E. Rosvold (1958-)
 Robert Thompson (1958-)
 J. M. Warren (1958-)

COMMITTEE ON PSYCHOLOGICAL TESTS

Harold P. Bechtoldt (1956-59), *Chairman*
 Donald W. Fiske (1956-59)
 Allen L. Edwards (1957-60)
 John T. Cowles (1958-61)

COMMITTEE ON THE WALTER V. BINGHAM LECTURE

Donald G. Paterson (1955-59)
 Harold E. Burtt (1956-60)
 Edwin E. Ghiselli (1956-61), *Chairman*
 Steuart H. Britt (1957-62)
 George K. Bennett (1958-63)

REPRESENTATIVES TO OTHER ORGANIZATIONS

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE²

James J. Gibson (1957-58)
 Frank W. Finger (1958-59), *Senior Delegate*
 Charles W. Bray (1959-60)

INTER-SOCIETY COLOR COUNCIL

F. L. Dimmick (1952-59)
 Sidney M. Newhall (1945-60), *Voting Delegate*
 Randall M. Hanes (1953-61)
 Frederick A. Mote (1954-62)
 Walter F. Grether (1954-63)
 Rita M. Halsey (1957-64)
 Leo M. Hurvich (1955-65), *Voting Delegate*,
Chairman
 Harry Helson (1945-66), *Voting Delegate*
 Clarence H. Graham (1957-67)
 Lorrin A. Riggs (1957-68)

NATIONAL RESEARCH COUNCIL⁴

David A. Grant (1956-59)
 Robert B. MacLeod (1956-59)

⁴ Terms are for fiscal years beginning 1 July.

Richard L. Solomon (1956-59)
 William K. Estes (1957-60)
 Harry Helson (1957-60)
 Vincent Nowlis (1957-60)
 William A. Hunt (1954-61), *Senior Delegate*
 William D. Neff (1958-61)
 Leon Festinger (1959-62)
 Carl Pfaffmann (1959-62)

SCIENTIFIC MANPOWER COMMISSION²

Meredith P. Crawford (1957-59)
 Edward A. Rundquist (1958-60)

SOCIAL SCIENCE RESEARCH COUNCIL²

Carroll L. Shartle (1957-59)
 Wayne H. Holtzman (1958-60)
 Lyle H. Lanier (1956-61)

OFFICERS OF DIVISIONS

1. DIVISION OF GENERAL PSYCHOLOGY

President: Harry Helson
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AMERICAN PSYCHOLOGICAL ASSOCIATION
DISTINGUISHED SCIENTIFIC CONTRIBUTION AWARDS

1958

DISTINGUISHED Scientific Contribution Awards of the APA were presented to Frank Ambrose Beach, Paul E. Meehl, and B. F. Skinner during special ceremonies at the 1958 APA Annual Meeting. This third group of recipients joined Kenneth W. Spence, Carl R. Rogers, Wolfgang Köhler, Edward C. Tolman, Carl I. Hovland, and Curt P. Richter, to whom similar awards were made in 1956 and 1957, in being honored by the APA for contributions to the development of scientific psychology. Each recipient was presented with a formal citation of his outstanding scientific contribution to psychology and an honorarium of \$1,000. Each will give his award address at the APA Annual Meeting in Cincinnati in 1959.

PRESENTATION OF THE AWARDS

The presentations were made by E. Lowell Kelly: "In 1955, at our San Francisco meeting, the APA decided to establish a continuing program to honor those of its members whose scientific contributions are regarded as outstanding. Each year three psychologists are selected to receive a Distinguished Scientific Contribution Award. The award consists of a scroll, on which is inscribed the citation describing the contribution for which the award is made, and of a check for \$1,000. In accepting an award, the recipient agrees to deliver a special lecture on APA Day the following year. The identity of each year's winners is the best kept secret in APA, known only to the special committee and a few key persons in the Central Office.



—Chase LTD., Photo

PAUL E. MEEHL, B. F. SKINNER, FRANK A. BEACH, E. LOWELL KELLY

Recipients of the 1958 Distinguished Scientific Contribution Awards shown with E. Lowell Kelly, Chairman of the Committee for Selecting the Recipients of Awards for Outstanding Contribution to Scientific Psychology.



—ASUC Photography

FRANK AMBROSE BEACH

"Responsibility for selecting the award winners for any year is given to a special committee elected annually by the preceding Council of Representatives. In making its selections, the Committee is guided by several general rules: (a) the awards are made not for any particular experiment or publication but for a series of related and impactful contributions over several years; (b) the awards are designed to recognize relatively recent contributions and hence are not competitive with the Gold Medal Award of the American Psychological Foundation, which is awarded for a distinguished life of scientific and scholarly contribution; (c) over the years, the award winners are to represent the wide diversity and broad scope of scientific psychology; and (d) the current President and President-elect of APA are automatically excluded from consideration for an award.

"The committee responsible for selecting the award winners this year included Frank A. Geldard, Ernest R. Hilgard, Carl I. Hovland, and Harold Schlosberg; as its Chairman, I now have the very pleasant duty and the honor of presenting these awards to the three psychologists regarded

by the committee as most deserving of the 1958 Distinguished Scientific Contribution Awards."

FRANK AMBROSE BEACH

Citation

"For his substantial contributions to comparative psychology. Through careful and systematic observation of animal behavior, he has contributed greatly to our understanding of the interaction of biological and environmental factors especially in the important area of sex behavior. He has done much to bridge the gap between the work of ethologists on animal behavior and psychologists on learned behavior. While remaining primarily a psychologist, his work is truly interdisciplinary, winning respect from naturalists, physiologists, and anthropologists alike. In the great tradition of comparative psychology, he seeks to understand the behavior of many species, including man, within the broadest possible context of biology."

Biography

Frank Ambrose Beach, Jr. was born in 1911 in Emporia, Kansas. He remained in his native city to take the BS in education (1933) and the MS in psychology (1934) at Kansas State Teachers College. After teaching high school English for one year, he entered Harvard University and served for a year as a Research Assistant in neuropsychology. From 1936 to 1942, Beach was Assistant Curator in the Department of Experimental Biology at the American Museum of Natural History, New York, receiving his PhD in 1940 from the University of Chicago. In 1942 he became Curator and Chairman of the Department of Animal Behavior at the museum and remained there until 1946, during the final year serving also on the staff of the City College of New York. From 1946 Beach served as a Professor of Psychology at Yale University, holding the title of Sterling Professor from 1952 to 1958. In 1958 he joined the faculty of the University of California at Berkeley.

Beach has held a number of endowed lectureships: the tenth James Arthur Lecture on the Evolution of the Human Brain at the American Museum of Natural History (1941), the fourth Smith College Lecture Series (1949), the William James Lecturer in Psychology at Harvard (1952), the Jake Gimbel Lecturer at the University of California Medical School (1952), the Jake Gimbel Lecturer at the University of California at Los An-

geles (1953), the Gregory Menas Lecturer at the New York University Medical School (1956), and the Academic Lecturer at the Annual Meeting of the American Psychiatric Association (1956).

A member of the National Academy of Sciences, Beach is currently Chairman of the Section on Psychology, of the Committee for Research on Problems of Sex, and of the Board for Senior Post-doctoral Fellowships in Physiological Psychology. He is also a member of the Board of Directors of the Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Maine, and a member of the Board of Scientific Advisors of the Archbold Biological Station, Lake Placid, Florida. In the past he has served as Chairman of the Publications Board and of the Policy and Planning Board of APA, as President of the Division of Experimental Psychology (1949), as President of the Eastern Psychological Association (1951), and as Vice-President of Section I of the American Association for the Advancement of Science. In addition, Beach is a Fellow of the American Academy of Arts and Sciences and of the New York Academy of Sciences, and a member of the American Society of Zoologists, the American Society of Naturalists, the American Society of Ichthyologists and Herpetologists, the Society for Experimental Biology and Medicine, the British Association for the Study of Animal Behavior, Sigma Xi, and the Society of Experimental Psychologists which in 1953 awarded him the Warren Medal for excellence in scientific experimentation.

Scientific Publications

1937

The neural basis of innate behavior: I. Effects of cortical lesions upon the maternal behavior pattern in the rat. *J. comp. Psychol.*, 24, 393-436.

1938

A new method for marking small laboratory animals. *Science*, 87, 420.

The neural basis of innate behavior: II. Relative effects of partial decortication in adulthood and infancy upon the maternal behavior of the primiparous rat. *J. genet. Psychol.*, 53, 109-147.

Techniques useful in studying the sex behavior of the rat. *J. comp. Psychol.*, 26, 355-359.

Sex reversals in the mating pattern of the rat. *J. genet. Psychol.*, 53, 329-334.

1939

Maternal behavior of the pouchless marsupial *Marmosa cinerea*. *J. Mammal.*, 20(3), 315-322.

The neural basis of innate behavior: III. Comparison of learning ability and instinctive behavior in the rat. *J. comp. Psychol.*, 28, 225-262.

1940

Effects of cortical lesions upon the copulatory behavior of male rats. *J. comp. Psychol.*, 29, 193-244.

1941

Effects of brain lesions upon running activity in the male rat. *J. comp. Psychol.*, 31, 145-178.

Effects of lesions to corpus striatum upon spontaneous activity in the male rat. *J. Neurophysiol.*, 4, 191-195.

Apparatus for inflicting subcortical lesions in the rat brain. *Science*, 93, 383-384.

Copulatory behavior of male rats raised in isolation and subjected to partial decortication prior to the acquisition of sexual experience. *J. comp. Psychol.*, 31, 457-470.

Female mating behavior shown by male rats after administration of testosterone propionate. *Endocrinology*, 29, 409-412.

Instinct and intelligence. *Trans. N. Y. Acad. Sci.*, 4(1), 32-36.

1942

Analysis of the stimuli adequate to elicit mating behavior in the sexually inexperienced male rat. *J. comp. Psychol.*, 33, 163-207.

Comparison of copulatory behavior of male rats raised in isolation, cohabitation, and segregation. *J. genet. Psychol.*, 60, 121-136.

Effects of testosterone propionate upon the copulatory behavior of sexually inexperienced male rats. *J. comp. Psychol.*, 33, 227-247.

Execution of the complete masculine copulatory pattern by sexually receptive female rats. *J. genet. Psychol.*, 60, 137-142.

With P. RASQUIN. Masculine copulatory behavior in intact and castrated female rats. *Endocrinology*, 31(4), 393-409.

Sexual behavior of prepuberal male and female rats treated with gonadal hormones. *J. comp. Psychol.*, 34(3), 285-292.

Copulatory behavior in prepuberally castrated male rats and its modification by estrogen administration. *Endocrinology*, 31(6), 679-683.

Central nervous mechanisms involved in the reproductive behavior of vertebrates. *Psychol. Bull.*, 39, 200-226.

Analysis of factors involved in the arousal, maintenance and manifestation of sexual excitement in male animals. *Psychosom. Med.*, 4(2), 173-198.

Male and female mating behavior in pre-puberaly castrated female rats treated with androgens. *Endocrinology*, 31(6), 673-678.

- Importance of progesterone to induction of sexual receptivity in spayed female rats. *Proc. Soc. Exp. Biol., N. Y.*, 51, 369-371.
- 1943
- With T. WEAVER. Noise-induced seizures in the rat and their modification by cerebral injury. *J. comp. Neurol.*, 79(3), 379-392.
- Effects of injury to the cerebral cortex upon the display of masculine and feminine mating behavior by female rats. *J. comp. Psychol.*, 36, 169-198.
- Interindividual behavior among animals. *Trans. N. Y. Acad. Sci.*, 6(1), 14-18.
- 1944
- Effects of injury to the cerebral cortex upon sexually-receptive behavior in the female rat. *Psychosom. Med.*, 6(1), 40-55.
- Relative effects of androgen upon the mating behavior of male rats subjected to forebrain injury or castration. *J. exp. Zool.*, 97(3), 249-295.
- Experimental studies of sexual behavior in male mammals. *J. clin. Endocrinol.*, 4(3), 126-134.
- Responses of captive alligators to auditory stimulation. *Amer. Naturalist.*, 78, 481-505.
- 1945
- Angry mosquitoes. *Science*, 101, 610.
- With A. ZITRIN. Induction of mating activity in male cats. *Ann. N. Y. Acad. Sci.*, 46, 42-44.
- Bisexual mating behavior in the male rat: Effects of castration and hormone administration. *Physiol. Zool.*, 18(4), 390-402.
- Hormonal induction of mating responses in a rat with congenital absence of gonadal tissue. *Anat. Rec.*, 92(3), 289-292.
- Play in animals. *Encyclopedia brittanica*.
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- 1947
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- Evolutionary changes in the physiological control of mating behavior in mammals. *Psychol. Rev.*, 54(6), 297-315.
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- 1948
- Hormones and behavior*. New York: Hoeber.
- 1949
- With R. S. PAUKER. Effects of castration and subsequent androgen administration upon mating behavior in the male hamster (*Cricetus auratus*). *Endocrinology*, 45(3), 211-221.
- With A. M. HOLZ-TUCKER. Effects of different concentrations of androgen upon sexual behavior in castrated male rats. *J. comp. physiol. Psychol.*, 42, 433-453.
- A cross-species survey of mammalian sexual behavior. In P. H. Hoch & J. Zubin (Eds.), *Psychosexual development in health and disease*. New York: Grune and Stratton.
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- 1951
- Effects of forebrain injury upon mating behavior in male pigeons. *Behaviour*, 4(1), 36-59.
- Instinctive behavior: Reproductive activities. In S. S. Stevens (Ed.), *Handbook of experimental psychology*. New York: Wiley.
- Body chemistry and perception. In R. R. Blake & G. V. Ramsey (Eds.), *Perception: An approach to personality*. New York: Ronald Press.
- 1952
- "Psychosomatic" phenomena in animals. *Psychosom. Med.*, 14(4), 261-276.
- Sex and species differences in the behavioral effects of gonadal hormones. In *Colloquia on endocrinology*. Vol. III. London: Ciba Foundation.
- Mechanisms of hormonal action upon behavior. In *Colloquia on endocrinology*. Vol. III. London: Ciba Foundation.
- With C. S. FORD. *Patterns of sexual behavior*. New York: Harper.

With J. KAGAN. Effects of early experience on mating behavior in male rats. *J. comp. physiol. Psychol.*, 46(3), 204-208.

1953

Animal research and psychiatric theory. *Psychosom. Med.*, 15(5), 374-389.

With W. F. HEIDENREICH III & C. F. ALEXANDER, JR. Survival of mating behavior in male rats after thyroid-parathyroidectomy. *Endocrinology*, 52(6), 719.

Animals in psychological research. I. *Bull. Nat. Soc. Med. Res.*, 7(5), 2-6.

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1954

With J. JAYNES. Effects of early experience upon the behavior of animals. *Psychol. Bull.*, 51, 239-263.

The individual from conception to conceptualization. In *Psychology and the behavioral sciences*. Pittsburgh: Univer. Pittsburgh Press.

Ontogeny and living systems. In *Josiah Macy, Jr. Foundation First Conference on Group Processes*.

1955

With A. C. GOLDSTEIN & G. JACOBY. Effects of electroconvulsive shock on sexual behavior in male rats. *J. comp. physiol. Psychol.*, 48, 173-179.

With J. W. KISLAK. Inhibition of aggressiveness by ovarian hormones. *Endocrinology*, 56(6), 684-693.

With A. ZITRIN & J. JAYNES. Neural mediation of mating in male cats: I. Effects of unilateral and bilateral removal of the neocortex. *J. comp. physiol. Psychol.*, 49, 321-327.

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1956

With L. JORDAN. Effects of sexual reinforcement upon the performance of male rats in a straight runway. *J. comp. physiol. Psychol.*, 49, 105-110.

With J. JAYNES. Studies of maternal retrieving in rats: I. Recognition of young. *J. Mammal.*, 37(2), 177-180.

With J. JAYNES. Studies of maternal retrieving in rats: II. Effects of practice and previous parturitions. *Amer. Naturalist*, 40, 103-109.

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response to her young. *Behaviour*, 10(1-2), 104-125.

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In Press

Neural and chemical regulation of behavior. *Wisconsin symposium of interdisciplinary research*.

Evolutionary aspects of psychoendocrinology. *Second symposium on evolution and behavior*.

Normal sexual behavior in male rats isolated at fourteen days of age. *J. comp. physiol. Psychol.*

With H. FOWLER. Individual differences in the response of male rats to androgen. *J. comp. physiol. Psychol.*

With H. FOWLER. Effects of "situational anxiety" on sexual behavior in male rats. *J. comp. physiol. Psychol.*

With R. G. RABEDEAU. Sexual exhaustion and recovery in the male hamster. *J. comp. physiol. Psychol.*

With R. E. WHALEN. Effects of ejaculation on sexual behavior in the male rat. *J. comp. physiol. Psychol.*

PAUL E. MEEHL

Citation

"For imaginative and incisive investigations ranging over the fields of learning theory, clinical psychology, personality theory, psychometric theory, and the philosophy of science; for sophisticated and rigorous synthesis of these many domains of knowledge as fundamentals to a scientific psychology. His scholarly and comprehensive analysis of the inescapable and pervasive problems of prediction and of validity is a milestone in developing a meeting ground for theory and for practice in our discipline. His present collaborative research on diagnostic terminology and therapeutic process again aims at establishing that substrate of verifiable knowledge without which practice may become merely a repetitive, routinized, and unilluminated gesture."

Biography

Paul E. Meehl was born in Minneapolis, Minnesota, in 1920. He received both the AB (1941) and the PhD (1945) from the University of Minnesota where he began work as a Teaching Assistant in psychology and neuropsychiatry. Since that time he has successively served on the faculty of the university as Instructor, Assistant and Associate Professor, and Chairman of the Department of Psychology (1951-1957). Since 1952 he has held



—Newburg

PAUL E. MEEHL

the title of Professor of Psychology and Professor of Clinical Psychology in the Medical School, and since 1951 has engaged in part-time private practice. Other positions which Meehl has held include faculty membership at the Minnesota Center of Philosophy of Science (1953-1955); Acting Chief, Clinical Psychology, Veterans Administration Hospital, Minneapolis (1947-1949); participant in the Dartmouth Conference on Behavior Theory (1950); and participant in the St. Paul Conference on Psychology and Theology (1956).

Meehl holds the ABEP diploma as a clinical psychologist and is currently a member of the American Board of Examiners in Professional Psychology. He is a member of the Midwestern Psychological Association, of which he served as President in 1954-1955. He is also a member of the American Society for Psychical Research, Sigma Xi, Phi Beta Kappa, and Psi Chi.

Scientific Publications

1945

The dynamics of structured personality tests. *J. clin. Psychol.*, 1, 296-303.

A simple algebraic development of Horst's suppressor variables. *Amer. J. Psychol.*, 58, 550-554.

An examination of the treatment of stimulus patterning in Professor Hull's *Principles of Behavior*. *Psychol. Rev.*, 52, 324-332.

An investigation of a general normality or control factor in personality testing. *Psychol. Monogr.*, 59, No. 4.

1946

With M. JEFFREY. The Hunt-Minnesota Test for Organic Brain Damage in cases of functional depression. *J. appl. Psychol.*, 30, 276-287.

Profile analysis of the Minnesota Multiphasic Personality Inventory in differential diagnosis. *J. appl. Psychol.*, 30, 517-524.

With S. R. HATHAWAY. The K factor as a suppressor variable in the Minnesota Multiphasic Personality Inventory. *J. appl. Psychol.*, 30, 525-564.

1947

With H. McCLOSKY. Ethical and political aspects of applied psychology. *J. abnorm. soc. Psychol.*, 42, 91-98.

With C. BIRD, W. T. HERON, & D. G. PATERSON. The foreign language requirement for the PhD. *Amer. Psychologist*, 2, 136-138.

Minnesota Multiphasic Inventory. *5th Annu. Industr. Relat. Conf. Rep.* Minneapolis: Univer. of Minnesota, Center for Continuation Study.

Schizophrenia, catatonic form. In A. H. Burton & R. E. Harris (Eds.), *Case histories in clinical and abnormal psychology*. New York: Harper.

1948

With J. C. MCKINLEY & S. R. HATHAWAY. The MMPI: VI. The K scale. *J. consult. Psychol.*, 12, 20-31.

With K. MACCORQUODALE. On a distinction between hypothetical constructs and intervening variables. *Psychol. Rev.*, 55, 95-107.

With K. MACCORQUODALE. A further study of latent learning in the T-maze. *J. comp. physiol. Psychol.*, 41, 372-396.

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With K. MACCORQUODALE. Cognitive learning in the absence of competition of incentives. *J. comp. physiol. Psychol.*, 42, 383-390.

1950

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A most peculiar paradox. *Phil. Stud.*, 1, 47-48.

Configural scoring. *J. consult. Psychol.*, 14, 165-171.

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1951

With S. R. HATHAWAY. An atlas for the clinical use of the MMPI. Minneapolis: Univer. Minnesota Press.

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B. F. SKINNER

Citation

"An imaginative and creative scientist, characterized by great objectivity in scientific matters and by warmth and enthusiasm in personal contacts. Choosing simple operant behavior as subject matter, he has challenged alternative analyses of behavior, insisting that description take precedence over hypotheses. By careful control of experimental conditions, he has produced data which are relatively free from fortuitous variation. Despite his antitheoretical position, he is considered an important systematist and has developed a self-consistent description of behavior which has greatly increased our ability to predict and control the behavior of organisms from rat to man. Few American psychologists have had so profound an impact on the development of psychology and on promising younger psychologists."



—Koby Cambridge

B. F. SKINNER

Biography

Burrhus Frederic Skinner was born in Susquehanna, Pennsylvania, in 1904. He was graduated from Hamilton College in 1926 and received an MA degree in 1930 and a PhD in 1931 from Harvard. Hamilton College awarded him an honorary ScD in 1951. He was National Research Council Fellow, 1931-1933, and Junior Fellow in the Society of Fellows, Harvard, 1933-1936. He joined the Psychology Department at the University of Minnesota in 1936, remaining there until 1945. During the years 1942-1943, he conducted war research sponsored by General Mills, Inc. and was a Guggenheim Fellow in 1944-1945. In 1945 he became Chairman of the Department of Psychology at Indiana University. In the fall of 1947 he was appointed by Harvard University as William James Lecturer, and he joined the Department of Psychology at Harvard University as Professor of Psychology in 1948. On January 1, 1958, he became Edgar Pierce Professor of Psychology.

Skinner's major field of interest is the experimental analysis of behavior. His techniques for the study of "operant" behavior, in which probability or rate of response is emphasized, are widely used—both in pure research and in industry (es-

pecially, in the latter case, in the study of the effects of drugs on behavior). He has worked mainly with rats and pigeons, but has recently extended his techniques to the human organism in the study of psychotic behavior, in the analysis of verbal behavior, and in the design of instructional devices. In addition to standard equipment for laboratory research, he has designed an air-conditioned crib in which he raised one of his own children. Hundreds of babies have been reared in similar devices. Most recently he has invented a series of teaching machines designed to facilitate instruction from kindergarten through college.

Skinner is a member of the National Academy of Sciences, the American Philosophical Society, the American Academy of Arts and Sciences, and of other professional societies, including the Society of Experimental Psychologists which awarded him the Warren Medal in 1942.

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COMMITTEE FOR SELECTING THE RECIPIENTS
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AMERICAN PSYCHOLOGICAL FOUNDATION GOLD MEDAL AWARD

1958

AT the APA Annual Meeting in Washington, D. C., on August 31, 1958, the American Psychological Foundation announced the recipients of the APF Gold Medal Award and of a grant of assistance. Presentations were made by Robert R. Sears, President of APF.

GOLD MEDAL AWARD

"As you will recall, in 1956 the American Psychological Foundation began its custom of awarding a Gold Medal to a psychologist whose lifetime career the foundation felt had made a truly distinguished contribution to the content and status of the science of psychology. In the first year, the award was presented to Robert Sessions Woodworth of Columbia University. In the second year, APF had intended to present the award to Lewis Madison Terman of Stanford University, but Terman's death prevented the actual presentation.

"This year APF has the pleasure of honoring another distinguished psychologist for his long career of service to our science. The third Gold Medal is awarded to Edwin Ray Guthrie of the University of Washington.

"Guthrie did his undergraduate, and some graduate, study at the University of Nebraska, where he received the BA in 1907 and the MA in 1910. He then completed his doctoral training in 1912 at the University of Pennsylvania.

"In 1914 he began his faculty career at the University of Washington. During the next 42 years he moved steadily through the successive grades of the academic hierarchy and through the deanship of the Graduate School, to become, eventually, the university's chief executive officer for academic personnel. In 1951 he retired from his administrative duties and returned, for five years, to the professorship which he had held with such distinction for so many years before. These 42 years provided the opportunity for the development of a major theory of learning; the full growth of a talent for teaching and inspiring students of psychology; and, to a degree rarely achieved by professors of psy-

chology, the contribution of wisdom to the administration of a university.

"Guthrie's flare for theory was first exemplified in a textbook that he wrote with his good friend and colleague, Stevenson Smith, in 1921. For a decade, "Smith and Guthrie" was a provocative goad to the development of the American behavioral point of view in psychology. But, before the decade was much more than over, he had published the first edition of his little blue book called *Theory of Learning* (1935). This book launched the notion that there could be a theory of learning as well as a set of compactly listed facts about the process. It was a small book, in its first edition, but it has become a milestone in the development of learning theory.

"Shortly afterward, in 1938, he published his *Psychology of Human Conflict*, in which he extended his learning theory to account for a number of psychopathological phenomena. It was a pretty direct extension and reminds one of the story he tells on himself: He was invited, one year, to teach summer school at Columbia. At catalogue publication time, someone wrote and asked him what course he would like to have listed. His reply: it really didn't make much difference—the course would be on Guthrie's theory of learning, anyway.

"And so, no doubt, it was. As a technical psychologist, Guthrie has always been concerned with learning. Seventeen years after the original publication of his theory, he published a revised edition (1952). The book is not quite so small now, for the intervening years have provided much useful data for support; but it is still blue covered and still a milestone on the pathway of psychological science.

"But learning, for Guthrie, has been only the obverse of teaching. Psychology is as much indebted to him for the students he has produced as for his theory. For nearly three decades after Guthrie went to the University of Washington, the university did not offer doctoral training in psychology. One mark of his teaching lies in the number of students he stimulated to seek psychological ca-



EDWIN R. GUTHRIE

reers at other institutions. Few universities have contributed to the profession as many psychological doctoral candidates as Washington has, and certainly none other has produced students with greater dedication to their profession.

"Guthrie's health did not permit him to attend

this year's meeting of APA. We have therefore asked Allen Edwards, one of his former students and now a colleague, to accept for him the Gold Medal and the scroll that accompanies it. The scroll reads:"

American Psychological Foundation Third Gold Medal Award presented to Edwin Ray Guthrie for his distinguished contribution to psychology, as a theorist of the science of learning and a practitioner of the art of teaching.

A GRANT OF ASSISTANCE

APF has granted \$500.00 to *Psychologica*, the new Far East English-language journal of psychology, for assistance during the journal's early period of publication.

This is the foundation's first grant of assistance. It reflects a hope that *Psychologica* will aid in breaking down the language barriers of communication between American and Asiatic psychologists.

AMERICAN PSYCHOLOGICAL FOUNDATION

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EDUCATIONAL FACILITIES AND FINANCIAL ASSISTANCE FOR GRADUATE STUDENTS IN PSYCHOLOGY: 1959-1960

BRUCE V. MOORE

APA Education and Training Board

THIS report is similar to previous articles on educational facilities and financial assistance for graduate students in psychology. Institutions with graduate programs in psychology are listed, with information supplied by the respective departments. Schools not returning up-to-date information are not included, for no listing is based on information of previous years. There is no evaluation of these programs and no implication of approval of them by the American Psychological Association, except those doctoral programs in clinical psychology and in counseling psychology that are indicated by the phrase, "PhD in clinical and counseling APA-approved." See also the statement and list in the *American Psychologist* for June, 1958.

Requirements for Admission

Requirements for admission to graduate study in psychology were summarized for each institution on pages 627-630 of the October 1957 *American Psychologist*. The course requirements in psychology are relatively few, and many departments prefer that there not be a large number of courses, especially technique courses, completed at the undergraduate level. It is common to expect an undergraduate background of introductory or general psychology, experimental psychology with laboratory, and statistics. In general, however, there are not many specific requirements, and many good schools look upon these as being not rigid requirements, but strongly recommended minima which might be made up. An important qualification is scholarship, academic ability, or promise of success in scientific research. It is judged largely on the evidence of achievement at the undergraduate level and on the recommendations from persons in whom the admitting department has confidence. To assist in this evaluation of potential ability, the Graduate Record Examination or the Miller Analogies Test is desired by many departments and required by a few. Some institutions qualify their use of these measures as not the primary criteria but as helpful supplementary information when in doubt on the basis of other criteria. It should be noted that department requirements for admission are sometimes more selective than the requirements stated by the graduate school in its bulletin.

Institutional Facilities and Stipends

The following pages summarize the information submitted by each institution on facilities, requirements,

and financial assistance for graduate students. The order of each item of information is as follows:

1. *Name and address of institution.* The name and address of the institution apply throughout the description and should be added to the names of officials and their departments when writing. If more than one department at a university is listed, the names and addresses apply to all such departments.

2. *Application for admission and for fellowships, scholarships, or assistantships.* The student must apply for admission to graduate school as well as for stipends. Thus, it is sometimes necessary to write to two persons: one to apply for admission and another to apply for a stipend. Larger universities sometimes request students to apply for admission to the deans of colleges or heads of departments. Smaller universities typically request that applications for admission be made to the Graduate School or Admissions Office. The person or office to which the application for admission should be sent is stated for each institution. Most fellowships and scholarships are outright grants or subsidies and require no service to the department or university. Assistantships are different, being forms of employment for service in a department. Applications for scholarships, fellowships, or assistantships may be made directly to the chairman of the department of psychology unless otherwise stated. Where no name or department is shown, the application is, therefore, to be addressed to the chairman of the department of psychology.

3. *Tuition.* Tuition figures are for tuition and general fees and are usually for the academic year. In some cases, tuition is given for the quarter or semester, or according to semester or course hours. The words *resident* and *nonresident* are used by state universities which charge out-of-state residents a larger sum than students from the state itself. The abbreviation *nr* refers to total of nonresident or out-of-state tuition.

4. *Types of assistantships.* Assistantships may be available for either teaching or research or for a combination of both. The terminology here varies with the university. For example, the terms *graduate assistant*, *laboratory assistant*, *teaching assistant*, *clinical assistant*, and *research assistant* are all used. We have not attempted in these entries to go into complete detail regarding the duties required in the various types of assistantships; the student may obtain this information from the department.

Under *teaching assistantship*, the entry does not dif-

ferentiate between a teaching assistantship in which a graduate student has charge of a class and a teaching assistantship in which the student assists a more advanced teacher by grading papers, acting as a laboratory assistant, etc.

Research assistantships are ordinarily granted to students for work on research projects being conducted by members of a department. In some cases various skills, in statistical or laboratory methods, etc., are a prerequisite for these positions, and hence first-year graduate students may not be eligible.

5. *Hours of work.* Hours of work required are usually expressed in hours per week, though sometimes in teaching load or teaching hours. The number of hours indicated should, in many cases, be considered an approximation, especially in the case of research assistantships where the student is ordinarily expected to become part of a research team and also to consider his research work as part of his graduate training, rather than as a job to which he will devote only a limited number of hours.

6. *Stipends.* Stipends are usually expressed in terms of total stipend for an academic year of nine months. If expressed in any other terms, the unit, such as per month, is named. Stipends for assistantships are usually dependent upon difficulty of the work and training and experience required for it. The abbreviation *ex* means that the stipend carries with it exemption from tuition or that the stipend covers the cost of tuition. Thus, an entry *stipend, ex* means that tuition is waived; and *stipend, \$500 ex* means that the student receives \$500 plus exemption from tuition. A frequent advantage of scholarships and assistantships is the exemption from tuition, often a sum larger than the award itself.

7. *First-year students.* First-year students are eligible for the award unless the statement is specifically made that first-year students are not eligible. The statement then applies only to the positions immediately preceding it.

8. *Sex preferred.* A few institutions prefer or were established primarily for one sex, in which case the sex is indicated. If there is no statement of preference, it is understood that both sexes are accepted.

9. *Veterans Administration traineeships.* The VA provides internships as part of the training, leading to the PhD degree, of qualified students in psychology. Departments indicated as having APA-approved programs are eligible for VA traineeships. Students enrolled in any of these programs must satisfy the same requirements as other graduate students; they differ from them only with regard to their part-time employment by the VA in hospitals and clinics. Applications are made to the chairman of the department at any time, but appointments are most likely to begin in the fall. To be eligible for appointment in a VA program,

a student must be enrolled in a school which has a doctoral program approved by the American Psychological Association. Detailed information about the VA trainee programs may be secured by writing to the Chief Medical Director, Department of Medicine and Surgery, Veterans Administration, Washington 25, D. C.

10. *United States Public Health Service stipends.* The USPHS program provides some universities with a limited number of stipends for selected graduate students in clinical psychology. Stipends ordinarily range from \$1,200 to \$2,400, depending upon the level of training. Universities in which these stipends were available during 1958-1959 are indicated. Applications should be made to the chairman of the department of psychology at the desired university.

11. *Other positions available.* Many departments also have other positions or means of financial assistance for graduate students. If such information was submitted, it is listed in the entry. In addition, many departments have other positions available than those listed here. Departments are often requested to recommend students for teaching evening classes or courses in a nearby smaller college. These positions are not usually available on the basis of paper record or application, and first-year students are ordinarily not considered for them. However, they are part of the possibilities for part-time employment while a graduate student.

The APA Central Office, through its Placement Office, has frequent requests from prospective graduate students for part-time employment while pursuing graduate studies. Few such positions are listed with the APA office. The student who wishes part-time work should write directly to the university in which he is interested.

12. *Date of appointment.* For several years there has been an agreement among many chairmen of departments with graduate programs in psychology that assistance to graduate students, in the form of scholarships, fellowships, assistantships, or other stipends, would not be offered to candidates before April 1 for the following academic year. In addition to this agreement, the Graduate Schools of North America had adopted the following resolution:

In every case in which a graduate assistantship, scholarship, or fellowship for the next academic year is offered to an actual or a prospective graduate student, the student, if he indicates his acceptance before April 15, will still have complete freedom through April 15 to reconsider his acceptance and to accept another fellowship, scholarship, or graduate assistantship. He has committed himself, however, not to resign an appointment after this date unless he is formally released from it.

Therefore, an applicant cannot expect definite offers of appointments before April 1, and then, if he accepts an appointment, he has freedom to reconsider it until April

15; but after that date, he is committed not to resign unless formally released.

Advice to Applicants for Financial Assistance

You may make as many applications as you wish, but do not apply for an appointment you would not consider accepting. You may expect to hear the results of applications soon after April 1. Informal notification is often sent by the department, or even by an individual who has funds for a research assistant. If you receive and accept such an offer, you may relax, confident that you will eventually receive formal notification of your admission to the graduate school and of your appointment as an assistant.

A student who has made multiple applications may get more than one offer sometime between April 1 and April 15, and perhaps a few statements that he is listed as an alternate. To protect a candidate against premature decision, most graduate schools subscribe to the code which allows the applicant until April 15 for a final decision. However, if he does not promptly refuse an offer he does not intend to accept, he abuses this privilege and it works hardship on other applicants. For example, a very able student may get several offers around April 1, one of which is from the school of his choice. If he holds up his replies until April 15, he may block offers to half a dozen men who would be glad to accept the appointments he will reject. We suggest the following procedure:

1. As soon as you have two offers, decide which one is the better for *you* and politely refuse the other.
2. Repeat this comparison and decision as each new offer comes in.
3. Terminate the process as soon as you get a satisfactory offer from your favorite school. Accept that offer and advise the other schools of your decision. The other schools will not be hurt by having you withdraw your application even before they make an offer, for they realize that many personal factors determine the choice of each student. On the contrary, they will appreciate your thoughtfulness in opening the way to another student who was below you on their list.

After you have accepted an appointment, do not take your obligation lightly or try to get released from it merely because you think you have received a better offer after April 15. Such irresponsible behavior may spoil your reputation with both institutions involved and with your sponsors.

Do not get too discouraged if you receive no offers by April 15. Vacancies occur through illness or change in career plans, and new openings open up as government grants are announced. These may be filled as late as September 1.

Postdoctoral Arrangements

Facilities for postdoctoral appointments are generally limited because they must be special for the particular individual. Since the postdoctoral applicant does not usually fit into any established program for a degree, he should carefully explore the facilities and potentialities for meeting his needs with the department to which he expects to apply. It is important that all arrangements for special study, research, or any special consideration be worked out with the department before final plans are made to spend time with it.

Adelphi College, Garden City, Long Island, N. Y. Apply for admission to Director, Graduate Division, by April 15. Tuition: \$800. A first-year grant-in-aid; up to 10 hours' work; stipend, \$800. Assistantships; 10 hours' work; stipend, \$800-1,000. Assistantships; 20 hours' work; stipend, \$1,500 ex. Apply by March 15. USPHS stipends. Master's in general experimental. Doctoral in experimental and clinical and school. PhD in clinical APA-approved.

Alabama Polytechnic Institute, Auburn, Ala. Apply for admission to Dean, Graduate School, four weeks before registration. Tuition: \$50 per quarter. Assistantships; 17 hours' work; stipend, \$100 per month. Other positions available. Apply by April. General Master's with opportunity for some specialization in experimental, clinical, industrial, educational, developmental, guidance, and school. For additional information write to Chairman, Dept. of Psych.

Alabama, University of, University, Ala. Apply for admission to Dean, Graduate School, as early as possible. Tuition: resident, \$210; nr, \$560. Scholarships; no work; stipend, \$850 ex; teaching fellowships; \$1,200 to \$2,000 ex; apply by March 1 to Dean, Graduate School. Assistantships; 15 hours' work; stipend, \$1,350 to \$1,800 ex; apply as soon as possible. MA and PhD in clinical and experimental.

Alberta, University of, Edmonton, Alta., Canada. Apply for admission to Dean, Graduate School, by August 15. Tuition: \$300 for complete MA program, plus \$16-60 fees per year. University scholarships available to Canadians. Master's in experimental, clinical, industrial, and social.

Alfred University, Alfred, N. Y. Apply for admission to Dean, Graduate School. Tuition: \$900. Assistantships; 15 hours' work; stipend, \$900. Master's in general, counseling, school.

American University, Washington, D. C. Apply for admission to Dean, Graduate School. Tuition: \$20 per credit hour. Scholarships. Assistantship; stipend, \$400, full tuition for four courses each semester; 15 to

20 hours' work. Apply to Dean, Graduate School, before March 15. Master's in psychology and in guidance and counseling; doctoral in social.

Arizona, University of, Tucson, Arizona. Apply for admission to Dean, Graduate College, before May 1. Fees, resident, \$76; nr, \$600. Tuition scholarships; apply to Dean, Graduate College. Assistantships; 12 hours' work, \$1,200; half-time teaching, \$1,800. Apply before April 15. Master's and doctoral in general-experimental, clinical, social and educational guidance.

Arkansas, University of, Fayetteville, Ark. Apply for admission to Chairman, Dept. of Psych. Tuition: resident, \$150; nr, \$350. Assistantships; 10-20 hours' work; stipend, \$800-1,600 ex nr; apply by April 15. Master's in general-experimental, and clinical-counseling, 2 years.

Baylor University, Waco, Texas. Apply for admission to Dean, Graduate School, by May 1. Tuition: \$495. Laboratory assistantships; 12-15 hours' work; stipend, \$540-720. Research assistantships; stipend, \$900-1,200, with two-thirds remission of tuition; teaching assistantships, \$900-1,200. MA in Psychology, PhD in clinical and general-experimental.

Boston University, Boston 15, Mass. Apply for admission to Dean, Graduate School, by April 1. Tuition: \$900. University scholarships open to all graduate students; stipend varies. Teaching fellowships; 6 hours' work; stipend, \$1,000 ex. Human Relation fellowships; stipend, \$2,000. Assistantships; stipend, ex. Research assistantships in physiological, social, and other areas; stipend, \$1,000-3,400. USPHS stipends. Other part-time positions available. Apply by April 1 to Dean, Graduate School. Master's without specialization. Doctoral in theoretical and experimental, social and personality, clinical, counseling, industrial. Postdoctoral in clinical. PhD in clinical and counseling APA-approved.

Bowling Green State University, Bowling Green, Ohio. Apply for admission to Dean, Graduate School, at least three weeks before entrance. Tuition: resident, \$250; nr, \$250. Assistantships; 15 hours' work; stipend, \$1,000 part ex; apply by May 1. Master's in general-experimental, clinical, industrial.

Brandeis University, Waltham, Mass. Apply for admission to Chairman, Graduate School, preferably by April 1. Tuition: \$1,000. Teaching and research assistantships; up to \$2,500; variable hours' work. Scholarships; up to \$1,000; variable hours' work. Apply by March 15 to Chairman, Graduate School. Doctoral and postdoctoral in general with emphasis on experimental, theoretical, personality, or clinical.

Brigham Young University, Provo, Utah. Apply for admission to Dean, Graduate School, by August 15.

Tuition: \$240. Scholarships; no work; stipend, \$210-1,000 ex; apply to Committee on Scholarships and Fellowships by March 1. Assistantships; approximately 6-20 hours' work; stipend, \$125-1,800; apply by June 1. Master's in developmental, experimental, social, clinical, educational, school, personnel and guidance. Doctoral in clinical.

British Columbia, University of, Vancouver, B. C., Canada. Apply for admission to Dean, Graduate School, or Registrar by September 1. Tuition: \$238. Assistantships; 8 hours' work, stipend, \$300; apply by September 15. Master's in clinical, general. Doctoral in clinical, general.

Brooklyn College, Brooklyn 10, N. Y. Apply for admission to Division of Graduate Studies. Tuition: \$12.50 per credit. Fellowships; 18 hours' work; stipend, \$2,020. Apply before March 1. Master's in general.

Brown University, Providence 12, R. I. Apply for admission to Dept. of Psych. or Registrar, Graduate School, by March 1. Tuition: \$1,000. Scholarships; no work; stipend ex. Fellowships; no work; stipend, \$1,200 ex; first-year students not usually eligible. Apply by Feb. 15 to Registrar, Graduate School. Assistantships; 10 hours' work; stipend, \$1,600-1,700 ex. Part-time research assistantships available, including summer. Apply by February 15 to Chairman, Dept. of Psych., or Registrar, Graduate School. Master's, doctoral and postdoctoral in experimental (learning, child, and psychophysiological).

Bryn Mawr College, Bryn Mawr, Pa. Apply for admission to Dean, Graduate School, before March 1. Tuition: \$800. Scholarships; no work; stipend, \$800-1,350. Fellowships; 1½ hours' work; stipend, \$2,050. Assistantships; 20 hours' work; stipend, \$1,550 ex. Men or women may apply for assistantships. Apply by March 1. MA and PhD in general-experimental with opportunity for specialized work in child, clinical, and industrial. Postdoctoral in general-experimental.

Buffalo, University of, Buffalo 14, N. Y. Apply for admission to Dean, Graduate School of Arts and Sciences, by March 1. Tuition: \$880. Assistantships; hours of work vary; stipend, \$550-1,100 ex. Research assistantships; stipend, \$1,000-2,000. USPHS stipends. Teaching fellowships for advanced students. Master's and doctoral in general-experimental, clinical, counseling, social, genetic-developmental, social, physiological. PhD in clinical and counseling APA-approved.

California, University of, Berkeley 4, Calif. Apply for admission to Graduate Division and Dept. of Psych., by May 31. Tuition: resident, \$63 per semester; nr, \$263 per semester. For scholarships and fel-

lowships apply by Feb. 7 to Dean, Graduate Division. For assistanships, apply to Dept. of Psych. by March 1. Research assistantships; 20 hours' work; stipend, \$1,745 (9 months) (ex for students on basis of grade); new students eligible. Teaching assistantships; 20 hours' work; stipend, \$1,820 (9 months) (ex for students on basis of grades). Nursery school assistantships and research assistantships in the Institute of Child Welfare and the Institute for Personality Assessment and Research. Additional part-time positions available. USPHS stipends. PhD in clinical APA-approved.

California, University of, Los Angeles 24, Calif. Apply for admission to the Graduate Division or Chairman, Dept. of Psych., by February 5. Tuition: resident, none; nr, \$400. Assistantships; 20 hours' work; stipend, \$1,820 (ex if scholastic record sufficiently good). USPHS stipends. Apply by March 1. Master's and doctoral in general-experimental, clinical, counseling, developmental, industrial, personality, social, measurement. Postdoctoral in clinical, physiological. PhD in clinical and counseling APA-approved.

Carnegie Institute of Technology, Pittsburgh 13, Pa. Apply for admission to Dean, Humanistic and Social Studies, by March 1. Tuition: \$1,000.

Department of Psychology: Tuition scholarships; stipend, ex. Research assistantships; stipend, \$1,000-2,500 ex. Teaching assistantships; stipend, \$2,000-3,000. Apply by March 1 to Dean, Humanistic and Social Studies. Doctoral in experimental and industrial.

Behavioral Science Joint Program: Tuition scholarships; stipend, ex. Fellowships; no work; stipend, \$2,000-3,500. Research assistantships; \$1,500-2,500, ex. Apply by March 1 to Dean, Graduate School of Industrial Administration. Doctoral in social psychology through interdisciplinary program including mathematics.

Catholic University of America, Washington 17, D. C. Apply for admission to Dean, Graduate School. Tuition: \$750. Scholarship; no work; stipend, \$1,000. Fellowships; 8 hours' work; stipend, \$600. Apply to Secretary-General by February 1. Assistantships; 20 hours' work; stipend, \$1,650; apply by March 1. USPHS stipends. Other part-time positions available. Master's and doctoral in general, experimental, clinical, counseling and personnel, social, remedial, physiological and postdoctoral in experimental, clinical and counseling. PhD in clinical and counseling APA-approved.

Chicago, University of, Chicago 37, Ill. Apply for admission to Office of Admissions three months before the quarter. Tuition: \$840. Apply for fellowships and

scholarships to Committee on Fellowships and Scholarships before February 15.

Committee on Educational and School Psychology: Scholarships; no work; \$280-840. Fellowships; no work; \$1,000-2,000. Research assistantships; number of hours' work varies; stipend, \$750-3,000. Doctoral in educational psychology emphasizing research, and in school psychology emphasizing work with children in the school setting.

Committee on Human Development: Scholarships; no work; stipend, \$420-840. Fellowships; \$1,000-2,000; no work. Research assistantships; 15-40 hours' work; stipend, \$750-3,000; entering students not eligible. No teaching assistantships. Other positions available. Doctoral and postdoctoral in child, developmental, clinical and counseling, social, personality, aging, with emphasis upon interdisciplinary approaches. USPHS stipends in social gerontology.

Department of Psychology: Scholarships; no work; \$420-840. Fellowships; no work; \$1,000-2,200. Research assistantships; 10-40 hours' work; \$500-4,000 per year. Teaching assistantships; 13-40 hours' work; \$750-4,000 per year; entering students not eligible. USPHS stipends. Other positions available through departmental placement service. Doctoral and postdoctoral in general, biopsychology, personality and psychopathology, social. Master's as optional step in doctoral program. PhD in clinical APA approved.

Chico State College, Chico, Calif. Apply for admission to the Registrar by September 1. Tuition: \$37; nr, \$180. Resident counselors in men's and women's dormitories; stipend, \$400. Apply by June 1. Master's in counseling and guidance.

Cincinnati, University of, Cincinnati 21, Ohio. Apply for admission to Head, Dept. of Psych., by June 1. Tuition: resident, \$330; nr, \$465. Scholarships; no work; stipend, ex; first-year students not eligible. Assistantships; 10-20 hours' work; stipend, \$200-600 ex; new students not eligible. Apply by March 1 to Head, Dept. of Psych., but blank should be obtained from Graduate School Office. Other part-time positions available. Master's in general, measurement, and personnel. Doctoral in theoretical-experimental, and in counseling psychology with emphasis on personal-clinical; vocational-educational or industrial personnel.

City College of New York, New York 31, N. Y. Apply for admission to Graduate Division of College of Liberal Arts and Sciences, by March 1. Tuition: \$350. Assistantships; 25 hours' work; stipend, \$1,770. Apply by March 1. Master's in experimental, clinical, and social.

Clark University, Worcester, Mass. Apply for admission to Chairman, Dept. of Psych., by March 1.

Tuition: \$700. Scholarships; no work; stipend, maximum \$1,200 ex. Assistantships; 15-20 hours' work; stipend, \$600-2,000. USPHS stipends. Other positions available. Master's and doctoral in genetic, clinical child, learning, experimental psychopathology, clinical, social, general experimental. Postdoctoral in general, experimental, clinical, developmental, social. PhD in clinical APA-approved.

Colorado State College of Education, Greeley, Colorado. Apply for admission to Chairman of the Graduate Division, and file duplicate certified transcripts of all previous academic credits. Resident tuition, \$58.50; nr, \$88.50. Master's and doctoral in educational psychology and guidance.

Colorado State University, Fort Collins, Colo. Apply for admission to Dean, Graduate School, by May 1. Tuition: resident, \$210; nr, \$300. Master's in psychology and in guidance and counseling.

Colorado, University of, Boulder, Colo. Apply for admission to Chairman, Dept. of Psych., by April 1. Tuition: resident, maximum \$212; nr, maximum \$608. Scholarships; no work; stipend, ex. Fellowships; no work; stipend, \$800-1,800. Apply by March 1 to Dean, Graduate School. Assistantships; up to 20 hours' work; stipend, \$1,520-1,650 ex nr tuition; apply to Chairman by March 1. Traineeships in rehabilitation counseling. USPHS stipends. Doctoral in general-experimental, social-personality, clinical, clinical, counseling. PhD in clinical and counseling APA-approved.

Columbia University, New York 27, N. Y. Apply for admission to Office of University Admissions before June 1 or November 1. Tuition: \$1,010.

Department of Psychology: Scholarships; no work; stipend, approximately \$1,500. Fellowships; no work; stipend, \$1,500-3,000. Apply by February 1 to Admissions Office. Research assistantships; variable number of hours of work; stipend, \$500-1,550. Teaching assistantships; 20 hours' work; stipend, \$1,650 ex; first-year students usually not eligible. Other positions available. Doctoral in experimental, social-personality, tests and measurements, industrial. Postdoctoral in experimental.

Program of Studies in Social Psychology: Scholarships and Fellowships as above. Doctoral in social psychology through interdisciplinary program including sociology and anthropology.

Teachers College, Department of Psychological Foundations and Services: Apply for admission to Admissions Office, Teachers College, by April 15 for clinical, counseling, personnel, and school psychologist programs; by August 1 for all others. Tuition: \$30 per point. Scholarships; no work; stipend, \$200-3,000;

apply by February 1 to Committee on Fellowships and Scholarships. Assistantships; hours of work and stipends vary, 8 points ex if stipend exceeds \$1,000. Other part-time positions available. USPHS stipends in clinical and school. OVR stipends in rehabilitation counseling. Master's in developmental, educational, and social psychology, tests and measurements, psychology of school subjects, and personnel technician. Two-year diploma programs in school, remedial reading, vocational counselor in community agencies, and rehabilitation counselor. Doctoral in clinical, counseling, developmental, educational, personnel, school, social, tests and measurements, and group procedures and development. Postdoctoral in clinical, counseling, school, educational, developmental. PhD in clinical and counseling APA-approved.

Connecticut College, New London, Conn. Apply for admission to Chairman, Dept. of Psych., by April 1. Tuition: \$1,230. Scholarships; 3 hours' work; stipend, ex. Assistantship; 20 hours' work; stipend, \$1,300 ex. Apply by April 15. Other part-time positions available. Master's in general and experimental, theoretical, child and developmental, clinical, industrial, social and personality. Women only.

Connecticut, University of, Storrs, Conn. Apply for admission to Dean, Graduate School, by April 1. Tuition: \$150. Assistantships; 18 hours' work; stipends, \$1,327-1,575. USPHS stipends. Other positions available. Apply by April 1. Master's and doctoral in clinical, child, general-experimental, personality-social. PhD in clinical APA-approved.

Cornell University, Ithaca, N. Y. Apply for admission to Dean, Graduate School.

Department of Psychology: Tuition: \$1,025 plus fees. Scholarships; no work; stipend, \$600 ex. Fellowship; no work; stipend, \$1,200 ex; first-year students not eligible; men preferred. University Fellowships open to students in all fields. Junior Fellowships; stipend, \$1,500 ex. Tuition scholarships. Assistantships; 20 hours' work; stipend, \$1,200-1,300 ex. Apply by February 14 to Dean, Graduate School. Master's and doctoral in comparative, differential and psychological tests, experimental, experimental psychopathology, history of psychology and systematic psychology, industrial, personality and social.

School of Education: Tuition: \$300 plus fees. Assistantships in College Reading Laboratory, University Testing and Service Bureau, General Psychology; 20 hours' work; stipend, \$2,000-2,200 ex. Apply by February 14 to Dr. M. D. Glock, 217 Stone Hall. University Fellowships and Tuition Scholarships. Apply by February 14 to Dean, Graduate School. Master's and doctoral in educational psychology.

Department of Child Development and Family Relationships: Tuition: \$300. Scholarships; no work; stipend, \$300 ex. Fellowships; no work; stipend, \$2,000. Apply by February 14 to Dean, Graduate School. Assistantships; 20 hours' work; stipend, \$1,575 $\frac{3}{4}$ ex. Apply by February 14 to Dr. Alfred L. Baldwin. Master's and doctoral in child development and family relationships.

Dalhousie University, Halifax, N. S., Canada. Apply for admission to Registrar by September 15. Tuition: \$285. University fellowships and scholarships; available for honor graduates of approved universities; stipend, \$400-1,000; apply to Dean of Faculty of Graduate Studies by April 1. Assistantship; 4 hours' work; stipend, \$250; apply by September 15. Master's in clinical.

Delaware, University of, Newark, Del. Apply for admission to Dean, Graduate School, by April 1. Tuition: \$13 per credit hour. Assistantships; 20 hours' work; stipend, \$1,200-1,400 ex; apply by March 1. Other part-time positions available. Program not specialized for master's.

Denver, University of, Denver 10, Colorado. Apply for admission to Dean, Graduate College. Tuition: \$14 per quarter hour. Teaching, research, and clinical fellowships; stipend, \$2,000, plus 15 quarter hours free tuition for nine months. Assistantships; 10 hours' work; stipend, \$600, plus 15 quarter hours free tuition for three quarters. Fellows should apply before March 15th. Assistants should apply at least three months before opening. Master's in experimental-general, clinical, counseling. Doctoral in experimental-general, clinical, counseling, educational psychology.

De Paul University, Chicago, Ill. Apply to Chairman, Psychology Department. Assistantship; 20 hours' work; stipend, \$1,200 part ex. Master's only.

DePauw University, Greencastle, Ind. Apply for admission to Chairman, Dept. of Psych. Tuition and fees: \$850. Assistantship; 12 hours' work; stipend ex. Apply by May 1. Master's in general.

Detroit, University of, Detroit 21, Mich. Apply for admission to Dean, Graduate School, at least one month before beginning of semester. Tuition: \$16.50 per credit hour. Fellowships; 18 hours' work; stipend, \$1,300 ex. Assistantships; 9 hours' work; stipend, \$650 or hourly basis. Men preferred. Apply by March 1 to Dean, Graduate School. Master's in general-theoretical, industrial, clinical.

Drake University, Des Moines 11, Iowa. Apply for admission to Dean of Graduate Division by May

30. Tuition: \$600. Master's in experimental and general.

Duke University, Durham, N. C. Apply for admission to Dean, Graduate School, by March 1. Tuition: \$800. Scholarships and fellowships requiring less than six hours. Department assistantships with hours of work varying according to stipend level; stipend, \$800-2,300. Research assistantships, variable stipends to \$2,700. USPHS stipends. Other stipends available for both clinical and nonclinical students. Apply by March 1 to Dean, Graduate School. Master's in general psychology and as optional step in doctoral program. Doctoral in general-experimental, physiological, clinical, counseling, industrial, personality and social. Postdoctoral in clinical and experimental. PhD in clinical and counseling APA-approved.

Duquesne University, Pittsburgh 19, Pa. Apply for admission to Dean, Graduate School, by August 1. Tuition: \$20 per credit hour. Assistantships; apply by May 1. Master's in general.

Emory University, Atlanta 22, Ga. Apply for admission to Dean, Graduate School. Tuition: \$705. PhD fellowships; stipend, \$1,850-2,400. PhD assistantships; stipends, \$1,405-2,000. MA fellowships; stipend, \$1,750. MA assistantships; stipend, \$705-1,400. Other part-time work available. Apply to Dean, Graduate School, by February 15. Master's and doctoral in general with emphasis on research. GRE required.

Florida State University, Tallahassee, Fla. Apply for admission to Dean, Graduate School, and Registrar's Office three weeks prior to registration. Fees: resident, \$150; nr, \$350. Fellowships; no work; stipend, \$750-900 for eight months. Assistantships; one-fourth time, \$600-900 ex nr, 10 hours work load, course load, 12 hours; one-half time, \$1,200-1,800 ex nr, 20 hours work load, course load, 10 hours; first-year students not eligible. Apply by March 15. Other part-time positions available. Master's and doctoral in general-experimental, clinical, child development, school. Postdoctoral in clinical and general experimental. PhD in clinical APA-approved.

Florida, University of, Gainesville, Fla. Apply for admission to the Registrar by August 15, and write to the Head, Dept. of Psych. Tuition: resident, \$150; nr, \$500. Fellowships; no work; stipend, \$1,125 ex; apply by March 15 to Dr. C. F. Byers. Assistantships; 15 hours' work; stipend, \$1,400 ex; apply by March 15. Other appointments occasionally available. Master's in general. Doctoral in experimental, clinical, and counseling. PhD in clinical and counseling APA-approved.

Fordham University, New York, Bronx 58, N. Y. Apply for admission to Registrar, Graduate School of Arts and Sciences, by June 1. Tuition: approximately \$840. Assistantships; 12 hours' work; stipend, \$780 ex. Apply by March 1 to Registrar, Graduate School. Master's in experimental, psychometrics, personality-social, industrial-personnel. Doctoral in experimental, clinical, personality, psychometrics.

Fresno State College, Fresno 26, Calif. Apply for admission to Chairman, Dept. of Psych. Tuition: Fee only. Scholarships: Apply by June 1. Master's in clinical and industrial-governmental.

George Peabody College for Teachers, Nashville 5, Tenn. Apply for admission to Admission Officers and to Dr. Nicholas Hobbs. Application papers must be complete one quarter prior to quarter of entrance. Tuition: \$360. Scholarships; no work; stipend, \$500-650; apply before March 1 to Chairman, Scholarship Committee. Assistantships; 10 hours' work; stipend, \$1,500. Fellowships in mental deficiency program; stipend, \$2,800. Fellowships in school psychology; stipend, \$1,800-2,800. For fellowships and assistantships apply to Dr. Hobbs by March 1. Master's in guidance, educational, special education. Doctoral in counseling, educational, child clinical, school. PhD in counseling APA-approved.

George Pepperdine College, Los Angeles 44, Calif. Apply for admission to Chairman, Graduate Academic Council by August 1. Tuition: \$22 per semester hour. Scholarships; ex from one quarter to full tuition; apply to Dean of the College. Assistantships; 10-15 hours' work; stipend, \$75 per month ex; one for 12 months; one for 9 months, also a 9 months assistantship in speech pathology; apply for speech pathology to Director, Speech Clinic. Apply for clinical psychology to Chairman, Dept. of Psych. by August 1. Masters in clinical, counseling and psychology-speech.

George Washington University, Washington 6, D. C. Master's applicants apply for admission to Admissions Office; Doctoral applicants to Chairman, Graduate Council, by July 1. Tuition: \$20 per semester hour credit. Assistantships; 10-15 hours' work; stipend, \$540. Teaching fellowship; 15-20 hours' work; stipend, \$1,350 ex; first-year students not eligible. Part-time extension teaching available to several doctoral students. For assistantships and fellowships, apply to Executive Officer, Dept. of Psych. Master's in measurement, clinical, counseling, experimental, personnel, social, and personality. Doctoral in measurement, abnormal, counseling, experimental, personnel, and social.

Georgia, University of, Athens, Georgia. Apply for admission to Dean, Graduate School, 6 weeks be-

fore any quarter. Tuition: resident, \$57.50 per quarter; nr, \$157.50 per quarter; but out-of-state tuition may be waived. Assistantships; 12-15 hours' work; stipend, \$1,500. Master's and Doctoral in general-experimental. Postdoctoral in experimental, physiological, comparative.

Harvard University, Cambridge 38, Mass. For study in the Departments of Psychology and Social Relations and for the PhD in Education, apply for admission by February 1. Men apply to Dean, Graduate School of Arts and Sciences; women apply to Graduate School, Radcliffe College, Cambridge 38, Mass. Tuition: \$1,000. For study leading to the EdD, apply by May 1 to Committee on Admissions, Graduate School of Education. Tuition: \$1,000.

Department of Psychology: Scholarships; no work; stipend, \$200-2,700; apply to Dean, Graduate School of Arts and Sciences (Harvard or Radcliffe), by Feb. 1. Assistantships; 8-20 hours' work; stipend, \$600-2,200; first-year students eligible if qualified. Apply to Chairman, Dept. of Psychology by May 1. Doctoral and post-doctoral in experimental and physiological.

Department of Social Relations: Scholarships; no work; stipend, \$200-2,700; apply to Dean, Graduate School of Arts and Sciences (Harvard or Radcliffe), by Feb. 1. Assistantships; 8-24 hours' work; stipend, \$440-2,640; first-year students eligible up to \$1,100. USPHS in clinical; USPHS including postdoctoral in social for social science in medicine. Doctoral and postdoctoral in social and clinical. PhD in clinical APA-approved.

Graduate School of Education: Scholarships; no work; stipend, \$400-2,500. Apply to Chairman, Committee on Financial Aid, Harvard Graduate School of Education, by April 1. Research assistantships in Human Development, in Instruction, and in Guidance; stipend, \$1,600-2,400. First-year students ordinarily not eligible. Apply to Director, Laboratory of Human Development; Director, Lab. for Research in Instruction, or Director, Harvard Studies in Career Development. Doctoral and postdoctoral in human development, educational measurement and statistics, psychology of early childhood, school psychology, counseling psychology, and administration of guidance services.

Hawaii, University of, Honolulu 14, T. H. Apply for admission to Dean, Graduate School, two weeks before beginning of term. Tuition: \$190. Assistantships; 20 hours' work; stipend, \$1,756 ex. Apply by April 15 to Dean of Faculties. Master's in general, social, developmental, applied-industrial, counseling.

Hofstra College, Hempstead, Long Island, N. Y. Apply for admission to Dean of Admissions, by May 1. Tuition: \$25 per semester hour. Graduate assistant-

ships; 15 hours' work; stipend, \$750. Master's in general and school.

Hollins College, Roanoke, Virginia. Apply for admission to Chairman, Department of Psychology. Tuition: \$850. Fellowships and assistantships; stipend, \$200-2,150 ex. Master's in general.

Houston, University of, Houston, Texas. Apply for admission to Chairman, Dept. of Psych., by March 15. Tuition: \$450. PhD traineeships in somatopsychology; stipend, \$2,400-2,800. Fellowships; 6 hours' work; stipend, \$1,000; first-year students not eligible. Assistantships; 10-20 hours' work; stipend, \$360-720. Apply by June 1. Master's in general, counseling, and psychometrics. Doctoral in clinical, educational, counseling, business, industrial, somatopsychology, and general.

Howard University, Washington 1, D. C. Apply for admission to Office of Admissions. Tuition: \$213. Scholarships and fellowships, \$247-663; apply to Dean of Graduate School, preferably by April 15. Assistantships; 15-20 hours' work; stipend, \$400-800; apply to Head of Department. Master's in general-experimental.

Idaho, University of, Moscow, Idaho. Apply for admission to Dean, Graduate School, by end of spring term. Tuition: None. Assistantship; 15 hours' work; stipend, \$1,050. Psychometric clerk positions on an hourly basis available. Master's in general, and master's and doctoral in guidance and counseling.

Illinois Institute of Technology, Chicago 16, Ill. Apply for admission to Office of Admissions before July 1 or December 1. Tuition: \$800. Assistantships; 14 hours' work; stipend, \$1,335 plus ex \$200. Other part-time positions available. Master's in general-experimental, industrial, preclinical. Doctoral in experimental, industrial, physiological, personality.

Illinois, University of, Urbana, Ill. Tuition: resident \$200; nr, \$550. Fellowships; no work; stipend, \$1,500 ex; apply by February 15. Tuition scholarships. Teaching or research assistantships; 20 hours' work; stipend, \$1,800 ex.

Department of Psychology: Apply to Head of Department for admission and for fellowships by February 15, assistantships by March 1, and tuition scholarships. USPHS stipends. Doctoral in general-experimental, industrial, clinical and counseling, social, personality, psychometrics, school psychology, engineering psychology. PhD in clinical and counseling APA-approved.

College of Education: Apply to F. H. Finch, 105 Gregory Hall, for admission and for fellowships by February 15, assistantships, and tuition scholarships. Mas-

ter's and doctoral in educational psychology, child development, counseling, test development and evaluation, and education of exceptional children.

Indiana University, Bloomington, Indiana. Tuition: resident, \$7 per credit hour, nr, \$15.25 per credit hour. Assistants and teaching associates are considered residents.

Department of Psychology: Teaching associateships; 4-6 credit hours teaching; stipend, \$1,900; research assistantships; 20 hours' work; stipends, \$1,600-1,900; graduate assistantships; 17 hours' work; stipend, \$1,600. USPHS program in clinical. Other part-time positions available. Apply by March 15 to Admissions Committee, Dept. of Psych., or Dean of the Graduate School. Master's and doctoral in experimental (with particular emphasis in learning, physiological, or measurement and statistics) and clinical. PhD in clinical APA-approved.

School of Education: Fellowships; no work; stipend, \$750-1,200. Assistantships; 15 hours' work; stipend, \$1,000-1,500. Teaching associateships; stipend, up to \$2,400. Apply before February 15 to Dean of Education. Counseling assistantships in men's and women's residence halls, approximately half-time work, for room, board, and remission of certain fees. Apply to Director, Counseling and Activities, Men's or Women's Halls. Master's and doctoral in educational, counseling.

Iowa State College, Ames, Iowa. Apply for admission to The Graduate College, 30 days before opening of quarter. Tuition: \$231. Assistantships; 10-20 hours' work; stipend, \$900-1,800, ex \$50 per quarter. Part-time industrial and personnel appointments available. Apply by April 15 to Dean, Graduate College. Master's with some specialization in: industrial, guidance and counseling, measurement and evaluation, and experimental.

Iowa, State University of, Iowa City, Iowa. Tuition: resident, \$260; nr, \$260.

Department of Psychology: Apply for admission to the Office of the Registrar. Scholarships; stipend, ex. Fellowships; no work; stipend, \$1,860. Assistantships; 15 hours' work; stipend, \$1,800-2,400. Apply by March 1 to Dept. Psych. USPHS stipends. Other positions available. Master's and doctoral in experimental, clinical, personnel counseling, social. PhD in clinical and counseling APA-approved. Postdoctoral in experimental, clinical, and social.

Iowa Child Welfare Research Station: Apply for admission to Director, Iowa Child Welfare Research Station, by March 15. Assistantships; 10-20 hours' work; stipend, \$800-2,800. Other positions available. Master's and doctoral in child psychology and child development and guidance.

Johns Hopkins University, The, Baltimore 18, Md. Apply for admission to Director of Admissions by March 1. Tuition: \$1,000. Scholarships; stipend, ex. Apply by March 1 to Director of Admissions. Fellowships; stipend \$1,800-2,800. Scholarships usually awarded with fellowships. Men preferred. Apply by March 1. Master's program predoctoral. Doctoral in physiological, social, personality and abnormal, experimental, educational, industrial, and human engineering. Postdoctoral in human engineering, physiological, experimental.

Kansas City, University of, Kansas City 10, Mo. Apply for admission to Director of Admissions by September 1. Tuition: \$18 per semester hour. Department Fellowships; 20 hours' work; stipend \$1,000, 9 mo., ex. Clinical Fellowships; \$1,200, 12 mo., non-ex. Apply by July 1 to Dean, College of Liberal Arts and the Chairman, Department of Psychology. Master's degree in Pre-Clinical, Social-Industrial, and General.

Kansas State College, Manhattan, Kansas. Apply for admission to Dean, Graduate School, by August 1. Tuition: per semester, resident, \$104; nr, \$154. Assistantships; 22 hours' work; stipend, \$1,530 with bachelor's degree, \$1,665 with master's degree. Apply by April 1 to Dean, Graduate School. Master's in social, industrial, counseling, general-experimental, measurement. Doctoral in industrial and counseling.

Kansas State Teachers College of Emporia, Emporia, Kansas. Apply for admission to Chairman, Graduate Division, before registration. Tuition: resident, \$139; nr, \$219. Fellowships; research project; stipend, \$500. Graduate assistantships; stipend, \$300-1,000. Apply by June 1 to Chairman, Graduate Division. Master's in special education, school, educational, general.

Kansas, University of, Lawrence, Kansas. Apply for admission to Committee on Graduate Admissions by March 31. Tuition: for clinical, resident, \$220; nr, \$470. For nonclinical, resident, \$140; nr, \$240. Scholarships; no work; stipend, \$600 plus incidental fee; apply by March 1 to Dean, Graduate School. Fellowships; no work; stipend, \$800-1,000 ex incidental fee. Apply by March 1 to Dean, Graduate School. Assistantships; 20 hours' work; stipend, \$1,700-1,800. Apply by March 31 to Committee on Graduate Admissions. USPHS stipends. Other part-time positions available. Master's and doctoral in general, social, industrial, physiological, child. Doctoral in clinical and counseling. Postdoctoral in clinical. PhD in clinical and counseling APA-approved.

Kent State University, Kent, Ohio. Apply for admission to Dean, Graduate School. Tuition: resident,

\$267; nr, \$522. Assistantships; 18 hours' work; stipend, \$1,200 ex. Apply by March 1. Master's in clinical, experimental, social and personality.

Kentucky, University of, Lexington, Ky. Apply for admission to Admissions Office by March 1. Tuition: resident, \$160; nr, \$360. Scholarships; stipend, \$600-1,800 ex nr. Apply by March 1 to Dean, Graduate School. Assistantships; 15-20 hours' work; stipend, \$1,200-1,800 ex nr; apply by March 1. State program in clinical. USPHS stipends. Other positions available. Master's in general, clinical, speech pathology. Doctoral in clinical, general-experimental, speech pathology and counseling. PhD in clinical APA-approved.

Lehigh University, Bethlehem, Pa. Apply for admission to Dept. of Psych. by March 15. Tuition: \$25 per credit hour. Assistantships; 20 hours' work; stipend, master's candidates, \$1,500-1,750 ex; doctoral candidates, \$1,750-2,000 ex. Other part-time positions available. Apply by March 15 to Office of Admissions. Master's in clinical, experimental, industrial. Doctoral in research-oriented general.

Long Beach State College, Long Beach 15, Calif. Apply for admission to Admissions Office by Sept. 15. Tuition: resident, \$29.50; nr, \$119.50 per semester. Master's in psychology, credentials in school psychometry and school psychology.

Long Island University, Brooklyn, New York. Apply for admission to Office of Admissions, Graduate School. Tuition: \$25 a credit. Scholarships and assistantships; stipend, \$1,000 ex. Apply to Chairman, Department of Psychology. Master's in general-experimental, preclinical, school psychology, social, business-industrial, guidance, and psychobiology. Sixth-year terminal professional diploma curricula.

Louisiana State University, Baton Rouge, La. Apply for admission to Dept. of Psych. by June 1. Tuition: resident, \$100; nr, \$200. Assistantships; 10-15 hours' work; stipend, \$1,000-1,800 ex. USPHS stipends. Apply by March 15. Master's in general. Doctoral in clinical, general-experimental, and personnel-industrial. Postdoctoral in clinical. PhD in clinical APA-approved.

Loyola University, Chicago 11, Ill. Apply for admission to Dean, Graduate School. Tuition: \$57.50 per course. Scholarships; 20 hours' work; stipend, ex for MA; women preferred. Fellowships; 20 hours' work (or equivalent teaching); stipend, \$1,200-1,600 ex; first-year students not eligible. Assistantships; 20 hours' work; stipend, \$1,000 ex. Apply by April 1 to Dean, Graduate School. Other part-time positions. Master's

in general-experimental, clinical-personality, industrial-social. Doctoral in general-experimental, clinical-personality, industrial-social. Postdoctoral in measurement.

MacMurray College, Jacksonville, Ill. Apply for admission to Chairman, Dept. of Psych. by March 15. Tuition: \$250 per semester. Assistantships; 12 hours' work; stipend, \$1,277 toward tuition, meals and room. Fellowships; stipend, \$300-900. Master's in clinical psychology.

Maine, University of, Orno, Maine. Apply for admission to Dean, Graduate Studies, by July 1. Tuition: resident, \$318; nr, \$653. Scholarships; no work; stipend, ex; apply by April 10 to Dean, Graduate Studies. Assistantships; 8-15 hours' work; stipend, \$1,400 ex; one assistantship for women with nursery or kindergarten experience; apply by July 1. Master's in experimental, clinical, vocational.

Marshall College, Huntington, W. Va. Apply for admission to Dean, Graduate School, by July 1. Tuition: resident, \$85; nr, \$385. Master's in general, pre-clinical.

Maryland, University of, College Park, Md. Apply for admission to Head, Dept. of Psych., by April 1. Tuition: \$200. Assistantships in department, Counseling Center, and contractual research; 20 hours' work; stipend, \$1,800 ex for some. Other positions available. Master's in general. Doctoral and postdoctoral in experimental, social, counseling, clinical, industrial, quantitative. PhD in counseling APA-approved.

Institute for Child Study: Fellowships; stipend, \$3,000, tax-exempt. Assistantships; stipend, \$1,200. Apply by February 1, Chairman, Committee on Fellowships, Institute for Child Study.

Massachusetts, University of, Amherst, Mass. Apply for admission to Dean, Graduate School, by June 1. Tuition: resident, \$50 per semester; nr, \$150 per semester. Fellowships and assistantships; up to 20 hours' work; stipend, up to \$2,200; fellowships ex. USPHS fellowships. Other positions available. Apply by April 1 to Head, Dept. of Psych. Master's in general. Doctoral in clinical (including general, school, and child), counseling, engineering, experimental, social. PhD in clinical APA-approved.

McGill University, Montreal 2, P. Q., Canada. Apply for admission to Chairman, Dept. of Psych. by April 1. Tuition: \$500. Assistantships; 8-10 hours' work; stipend, \$1,500-2,300 for eleven months. (Research assistance is normally for work on thesis.) Master's in measurement, human experimental, industrial, comparative and physiological, social, clinical.

Doctoral in human experimental, comparative and physiological, industrial, measurement, social.

McMaster University, Hamilton, Ontario, Canada. Apply for admission to the Dean of Graduate Studies by September 30, but as early as possible after February 1. Assistantships: 4 to 16 hours' work; stipend, \$400-1,200. Summer assistantships; stipend, \$800. Master's in experimental, clinical, social and physiological.

Miami, University of, Coral Gables, Fla. Apply for admission to Chairman, Dept. of Psych., by September 1. Tuition: \$720. Master's assistantships; 12 hours' work; stipend, \$1,000 usually ex. Doctoral assistantships, 12 hours' work; \$2,000 usually ex. Other part-time positions available. Apply by June 1. Master's and doctoral in research, teaching psychology, school, clinical.

Michigan State University, East Lansing, Michigan. Apply for admission to Committee on Admissions, Dept. of Psychology. Tuition: 6-10 cr \$50 r plus \$60 nr, over 10 crs \$85 r plus \$100 nr per term. Fellowships; stipend, nr ex. Apply to Registrar. Research and teaching assistantships in Dept. of Psych.; Traffic Safety Center (apply to the Committee on Admissions, Dept. of Psych.); and the Labor and Industrial Relations Center (apply to the Director); 20 hours' work, stipend, \$1,800-2,400, nr fees ex. Other positions available. Master's in experimental, social and personality, child and developmental, tests and measurements, industrial, social. Doctoral in experimental, child and developmental, tests and measurements, social and personality, clinical, counseling, industrial, and social. PhD in clinical APA-approved.

College of Education: Complete application by March 1 to Dean, College of Education. Several teaching assistantships, $\frac{1}{2}$ time; stipend, nr fee ex. MA and PhD (College of Education) in educational psychology, guidance and counseling, educational tests and measurements, child growth and development.

Michigan, University of, Ann Arbor, Mich. Apply for admission to Chairman, Committee on Graduate Studies, Dept. of Psych., by February 1. Tuition: resident, \$250; nr, \$600. Scholarships; no work; stipend, ex. Fellowships; no work; stipend, \$1,600-2,350. Apply by February 1 to Horace H. Rackham School of Graduate Studies. Research or teaching assistantships; 12-20 hours' work; stipend, \$1,350-2,150. First year students ordinarily limited to third-time work. Teaching fellowships; 20 hours' work; stipend, \$1,900 part ex. USPHS stipends. Other part-time positions available. Apply to Chairman, Committee on Graduate Studies, Department of Psychology, by February 1.

Doctoral and postdoctoral in general, experimental (including physiological and sensory and engineering psychology), social, personality, clinical, counseling, educational tests, measurements and statistics, industrial. PhD in clinical and counseling APA-approved.

Mills College, Oakland 13, California. Apply for admission to Director of Graduate Study. Fellowships; 12-18 hours' work; stipend, tuition remission plus room and board, or cash equivalent. Master's in clinical, school.

Minnesota, University of, Minneapolis 14, Minn. Apply for admission to Graduate School at any time. Tuition and fees; resident, \$190; nr, \$455. Assistants pay resident tuition.

Department of Psychology: Teaching assistantships; 10-20 hours' work; stipends, \$945-1,890. Apply by February 15 to Dept. of Psych. Research assistantships; 20 hours' work; stipend, \$1,890. USPHS stipends. Part-time psychological positions on campus, for list of which write to Chairman, Dept. of Psych. Master's and doctoral in all fields of psychology. PhD in clinical and counseling APA-approved.

Educational Psychology: Part-time teaching and research assistantships, with salary range of \$945-1,890 for nine months (25-50 per cent time). Apply to Dean's Office, College of Education.

Institute of Child Development and Welfare: Assistantships; 12 and 16 hours work; stipends, \$1,260 and \$1,890. Training stipends for research in child psychology, \$1,800-2,400. Other research appointments available. Apply by February 15th to the Director. Master's and doctoral in child, developmental, and parent education and family relationships. Postdoctoral in child and developmental.

Mississippi Southern College, Hattiesburg, Miss. Apply for admission to Director of Admissions. Fellowships; limited work; stipend \$800. Apply to Dean of Graduate School. Master's.

Mississippi, University of, University, Miss. Apply for admission to Dean, Graduate School, by August 1. Tuition: resident, \$188; nr, \$388. Scholarships; no work; stipend, \$600-1,000 ex nr fee; apply to Dean, Graduate School, by March 1. Assistantships; 9-12 hours' work; stipend, \$600-2,000 ex nr fee; apply by July 1. Master's in experimental, physiological and comparative, clinical. Doctoral and postdoctoral in social, teaching psychology.

Missouri, University of, Columbia, Mo. Apply for admission to Director of Admissions and to Chairman, Dept. of Psych., by May 1 or November 1. Tuition: resident, none; nr, none for graduate work; but fees are \$170. Fellowships; stipend, \$1,000. Scholar-

ships; stipend, \$700. Apply by March 1 to Dean, Graduate Faculty.

Psychology Department: Teaching assistantships, research assistantships, internships, instructorships; part-time; \$1,400-1,800; apply by April 1 to Dept. Chairman. USPHS stipends. Master's in general, child guidance, psychometrics. Doctoral in experimental, personality, counseling, clinical.

Graduate Department of Education: Teaching assistantships, research assistantships, internships, counselors; part-time; \$1,250-1,800; apply by May 1 to Chairman, Grad. Dept. of Education. Master's and doctoral in educational psychology, counseling, student personnel work.

PhD in clinical and in counseling by these coordinate departments APA-approved.

Montana State University, Missoula, Mont. Apply for admission to Dean, Graduate School, by September 1. Tuition: resident, \$222; nr, \$372. Assistantships; 12 hours' work; stipend, \$1,500 ex. Apply by April 15 to Dean, Graduate School. Master's in clinical, general.

Montréal, Université de, Montréal 2, P. Q., Canada. Apply for admission to Secrétaire-adjoint à l'Immatriculation by August 1. Tuition: resident, \$375; nr, \$450. Scholarships; no work; stipend, \$1,000-3,000. Fellowship; no work; stipend, \$3,000. Apply by May. Assistantships; 15 hours' work; stipend, \$1,000-1,400; first-year students not eligible; apply by January. Other part-time positions available, but first-year students not eligible. Master's and doctoral in clinical, social, tests and measurements, guidance counseling. Postdoctoral in clinical.

Nebraska, University of, Lincoln, Neb. Apply for admission to Dean, Graduate College, by March 15. Tuition: resident, \$120; nr, \$240.

Department of Psychology: Assistantships; 12 hours' work; stipend, minimum of \$1,200 ex; apply by March 15. Other positions available. Doctoral in general-experimental and clinical. PhD in clinical APA-approved.

Department of Educational Psychology and Measurements: Assistantships and part-time instructorships. Doctoral in educational.

Nevada, University of, Reno, Nevada. Apply for admission to Director of Admissions by March 1. Tuition: resident, none; nr, \$300. Apply to P. F. Secord for research assistantships; 10-20 hours' work; stipend, \$1,200-1,800. Master's in general, social, preclinical.

New Brunswick, University of, Fredericton, N. B., Canada. Apply for admission to Dean of Graduate School, by May 1. Tuition: \$310. Assistantships; 8 hours' work; stipend, \$500-750. Apply by May 1 to

Dean of Graduate School. Master's in experimental, educational.

New Hampshire, University of, Durham, N. H. Apply for admission to Dean, Graduate School. Tuition: resident, \$300; nr, \$700. Scholarships; no work; stipend, ex. Assistantships; 20 hours' work; stipend, \$1,400 ex. Apply by April 1 to Chairman, Dept. of Psych. Master's in general with emphasis on clinical.

New Mexico College of A. & M. A., State College, N. Mex. Tuition: resident, \$124; nr, \$248. Apply for admission to Dean, Graduate School, at least one month before entrance. Assistantships; 20 hours' work; stipend, \$1,700 ex. Apply by March 15 to Head, Psych. Dept. Master's in experimental.

New Mexico Highlands University, Las Vegas, N. M. Apply for admission to Registrar one month prior to entrance. Tuition: resident, \$55 per quarter; nr, \$90 per quarter. Matriculation fee, \$5. Assistantships; 3 hours' work; stipend, \$300. Other part-time positions available. Master's in clinical, child, experimental.

New Mexico, University of, Albuquerque, N. M. Apply for admission to Dean, Graduate School, one month before registration date. Tuition: resident, \$109.50; nr, \$224.50. Assistantships; 15-20 hours' work; stipend, \$1,600 ex nr fee; apply by March 1 to Dean, Graduate School. Master's.

New School for Social Research, Graduate Faculty of Political and Social Science, New York 11, N. Y. Apply for admission to Student Adviser, Graduate Psych. Dept. Tuition: \$25 per credit point. Scholarships; stipend, ex; apply by April 30 to Graduate Faculty Registrar. Assistantship; 40 hours' work; stipend, \$2,250 ex; first-year students not eligible; apply to Chairman, Graduate Psych. Dept. Master's and doctoral in general-experimental emphasizing the fields of social, personality, perception, learning and motivation.

New York University, New York 3, N. Y.

Department of Psychology, Graduate School of Arts and Sciences: Apply for admission to Head, Dept. of Psych., by March 15. Tuition: \$720 (\$180 per full course). Scholarships and fellowships. USPHS stipends. Assistantships; 20 hours' work; stipend, \$1,400 ex for three courses a year; apply by March 1. Other positions available. Doctoral in clinical, social, general-experimental, physiological-comparative, counseling, industrial. Postdoctoral in personality research. PhD in clinical and counseling APA-approved.

Department of Educational Psychology, School of Education: Apply for admission to Dean of Admissions, School of Education, 90 days before admission. Assistantships. Doctoral in educational school.

North Carolina State College, Raleigh, N. C. Apply for admission to the Dean, Graduate School, thirty days before opening of semester. Tuition: resident, or nonresident with assistantship, \$278; nonresident without assistantship, \$628. Assistantships; 20 hours' work; stipend, \$2,000; 10 hours' work, stipend, \$1,000. Master's in industrial, applied experimental.

North Carolina, University of, Chapel Hill, N. C. Apply for admission to Dean, Graduate School, by March 1. Tuition: resident, \$150; nr, \$500. Fellowships in behavioral science; no work; stipend, \$1,500 ex nr. Teaching and research assistantships; 10-20 hours' work; stipend, \$1,800-2,000 ex nr. Apply by March 1 to Dean, Graduate School. USPHS stipends. Other positions available. Master's and doctoral in general-experimental. Master's, doctoral, and postdoctoral in social, psychometric, clinical. PhD in clinical APA-approved.

North Dakota, University of, Grand Forks, N. D. Apply for admission to Dean, Graduate School, two months before admission. Tuition: per semester, resident, \$45; nr, \$105. Teaching assistantships; stipend, \$1,500 ex. Scholarships and fellowships; stipend, \$500-1,000 ex; for residents only. Apply to Dean of Graduate School. Master's in experimental research. Doctoral in experimental research, clinical, counseling and guidance.

Northwestern University, Evanston, Ill. Apply for admission to Dean, Graduate School. Tuition: \$660. Scholarships; no work; stipend, \$660. Fellowships; no work; stipend, \$1,300 ex. Assistantships; 12-15 hours' work; stipend, \$1,300 ex. Apply by March 1 to Dean, Graduate School. USPHS stipends. Other part-time positions available. Doctoral in experimental, social, clinical. Postdoctoral in experimental and clinical. PhD in clinical APA-approved.

Oberlin College, Oberlin, Ohio. Apply for admission to Dean. Tuition: \$950. Scholarship; no work; stipend, ex; apply by March 15 to Dean, College of Arts and Sciences. Assistantship; 10-17 hours' work; stipend, \$1,500 ex half-schedule; apply by March 15. Master's in experimental.

Occidental College, Los Angeles, Calif. Apply for admission to Chairman, Dept. of Psych., before April 15. Tuition: \$700. Master's in experimental, clinical-counseling, psychological testing.

Ohio State University, Columbus 10, Ohio. Apply for admission to Entrance Board by February 1. Tuition: resident, \$270; nr, \$645. Fellowships; no work; stipend, first-year students \$1,500, others \$1,800. Apply to Graduate School by February 15. Assistant-

ships; 25 hours' work; stipend, \$1,800. First-year students rarely eligible. Assistantships; 15 hours' work; stipend, \$1,200; first-year students eligible; apply by February 1. USPHS stipends. OVR counseling. Other positions available. All students pay resident fee of \$270, but those on university appointment are exempt from the additional nonresident fee of \$375. Master's and doctoral in general, clinical, industrial, counseling, educational, statistics, social. PhD in clinical and counseling APA-approved.

Ohio University, Athens, Ohio. Apply for admission to Dean, Graduate College, by March 1. Tuition: resident, \$270; nr, \$570. Graduate appointments; 18 hours' work; stipend, \$1,600 ex for first-year students and \$1,800 ex for second-year students. Other part-time positions available. Master's in experimental and theoretical, clinical, counseling, industrial, school.

Oklahoma State University, Stillwater, Okla. Apply for admission to Dean, Graduate School, before April 1. Tuition: resident, \$168; nr, \$264. Assistantships; teaching and research; 6 hours' work; stipend, \$1,440-1,800. Federal traineeships; stipends, \$1,800-4,000. Apply by April 1. Master's, doctoral, and postdoctoral.

Oklahoma, University of, Norman, Okla. Apply for admission to Office of Admissions and Records by March 15. Tuition per credit hour: resident, \$6, nr \$15. Scholarships and fellowships; apply to Dean, Graduate College. Assistantships; 20 hours' work; stipend, \$1,320-1,800. Apply by March 15 to Dept. of Psych. Master's in experimental-theoretical. Doctoral in experimental-theoretical, clinical. PhD in clinical APA-approved.

Omaha, The University of, Omaha 1, Neb. Apply for admission to Chairman, Committee on Graduate Studies, preferably one month prior to first day of class. Tuition: resident, \$240; nr, \$420. Assistantships; 20 hours' work; stipend, \$1,250. Other part-time positions available. Apply by September 1 to Dean. Master's in clinical, educational, general, applied.

Oregon, University of, Eugene, Oregon. Apply for admission to Office of Admissions. For fellowships and assistantships apply to Chairman, Dept. of Psych. Tuition: \$222. Teaching fellowships; 12 hours' work; stipend, \$1,600; first-year students not eligible. Teaching and research assistantships; stipend, \$1,200-1,400 ex, except for \$84 fees. Apply by March 21. OVR counseling traineeships. Master's and doctoral in general-experimental, social, personality, counseling, and clinical. Postdoctoral in comparative, personality, counseling, clinical, quantitative. PhD in clinical and counseling APA-approved.

Ottawa, University of, Ottawa, Ont., Canada. Apply for admission to the Registrar by June 1. Tuition: \$400 approximately. Assistantships; approximately 20 hours' work; stipend, \$1,000; first-year students not eligible; part-time teaching positions; apply by April 1. Master's in psychology and education; and doctoral in clinical, counseling, educational, child.

Pacific University, Forest Grove, Oregon. Apply for admission to Director of Admissions by May 1. Tuition: \$550. Master's in clinical, visual.

Pennsylvania State University, University Park, Pa. Apply for admission to Dean of Admissions by April 1.

Department of Psychology: Tuition: resident, \$175; nr, \$375. Scholarships; 5 hours' work; stipend, ex. Fellowships; no work; stipend, \$1,800-2,400 ex. Assistantships; 10-20 hours' work; stipend, \$603-1,602 ex. USPHS stipends. Dormitory counseling for room and board; apply to Dean of Men. Other part-time work available. Master's and doctoral in general, experimental, educational, child development, business, industrial, comparative, social, clinical, counseling. PhD in clinical and counseling APA-approved.

Department of Child Development and Family Relationships: Tuition: resident, \$175 per semester; nr, \$375 per semester. Research assistantships; 20 hours' work; stipend, \$1,602 ex. Teaching assistantships; 20 hours' work; stipend, \$1,602 ex. Other positions available. Apply by April 1 to Dean, College of Home Economics. Master's and doctoral in child development and family relationships.

Pennsylvania, University of, Philadelphia 4, Pa. Apply for admission to Dean, Graduate School, by February 18. Tuition: \$800 (\$37.50 per semester credit). Scholarships; no work; stipend, ex-\$400 ex. Fellowship; no work; stipend, \$200-2,000 ex. Apply by February 18 to Dean, Graduate School. Laboratory and research assistantships; 8-20 hours' work; stipend, ex, \$450 ex-1,350 ex; apply by February 18 to Chairman, Dept. of Psych. USPHS stipends. Other positions available. Master's in general. Doctoral and postdoctoral in general-experimental, clinical, vocational and industrial, speech correction, personnel, social. PhD in clinical and counseling APA-approved.

Pittsburgh, University of, Pittsburgh 13, Pa. Apply for admission to Chairman, Admissions Committee, by March 1. Tuition: \$16 per semester credit hour. University scholarship; no work; stipend, \$2,500. Fellowships; no work; stipend, \$1,000. Research assistantships; 20 hours' work; stipend, \$1,530-2,000 occasionally ex. Teaching assistantships; 6 class hours' work; stipend, \$1,200 ex; first-year students below MA level

not eligible. Research assistantships in physiological and comparative; stipend, \$2,850. USPHS stipends. Apply by March 1. Master's and doctoral in general-experimental, educational, personality, social, clinical, measurement, industrial. Postdoctoral in experimental and physiological. PhD in clinical APA-approved.

Portland, University of, Portland 3, Oregon. Apply for admission to Dean, Graduate School. Tuition: \$20 per credit hour. Scholarships; 0-5 hours' work; stipend, ex. Scholarships; 0-5 hours' work; stipend, half ex. Scholarships; 0-10 hours' work; stipend, \$600 ex. Assistantships; 10-12 hours' work; stipend, \$900-1,200 ex. First-year students usually not eligible for assistantships. Counseling assistantship in a woman's residence hall, approximately half-time work, for room, board, remission of fees. Apply by April 15. Master's in child, clinical, counseling, general-experimental. Doctoral in clinical, counseling, general-experimental.

Princeton University, Princeton, N. J. Apply for admission to Dean, Graduate School, by March 1. Tuition: \$750. Scholarships; no work; stipend, \$750. Fellowships, no work; stipend, \$1,150-2,150. Assistantships; maximum 20 hours' work; stipend, \$2,100-2,300. Educational Testing Service fellowships; 15 hours per week in-service training; stipend, \$2,650. Apply by March 1 to Dean, Graduate School. Master's not specialized. Doctoral in general psychology with opportunity for specialization in physiological and experimental, social, psychometrics, personality and abnormal, industrial. Postdoctoral in general.

Purdue University, Lafayette, Ind. Apply for admission to Dean, Graduate School, by April 1.

Department of Psychology: Tuition: resident, \$225; nr, \$600. Fellowships; no work; stipend, \$1,600 ex except \$64; first-year students only. Fellowships; 0-20 hours' work; stipend, \$1,500 ex except \$64; first-year students not eligible; men preferred. Assistantships; 20 hours' work; stipend, \$1,700 ex except \$64. Apply to Dean, Graduate School, by March 1. USPHS stipends. Other positions available. Master's in experimental, child, clinical, industrial, educational, measurement, social. Doctoral in industrial, clinical, counseling, school, clinical, experimental, applied social, educational. Postdoctoral in clinical. PhD in clinical and counseling APA-approved.

Department of Child Development and Family Life: Tuition: resident, \$225; nr, \$600. Fellowships; no work; stipend, \$1,600 ex except \$64; first-year students. Teaching assistantships; 20 hours' work; stipend, \$1,700 ex except \$64. Research assistantships; 20 hours' work; stipend, \$1,500-1,700 ex except \$64. Apply by March 1 to Dean, School of Home Economics. Master's and doctoral in child development and family life.

Queen's University, Kingston, Ontario, Canada. Apply to the Registrar before March 1. Graduate fellowships; stipend, \$1,200-1,500. Assistantships: 6 hours' work during 25 weeks of session, stipend, \$350-500. Master's and doctoral in general-experimental, social, psychometric, clinical.

Radcliffe College, Cambridge, Mass. See Harvard University.

Richmond Professional Institute of the College of William and Mary, Richmond, Va. Apply for admission to Chairman, Department of Clinical and Applied Psychology. Tuition: resident, \$300; nr, \$460. Scholarship; no work; stipend, \$500. Fellowships; 8-10 hours' work; stipend, \$1,080; first-year students not eligible. Assistantships; 8-10 hours' work; stipend, \$250-450. Dormitory managers (male) provided room, board, and tuition. Apply to Chairman, Department of Clinical and Applied Psychology, by June 1. Other part-time positions available. Master's in clinical, applied psychology.

Richmond, University of, Richmond, Va. Apply for admission to Dean, Graduate School. Assistantships available in Dept. of Psychology and the Center for Psychological Services; stipend, up to \$1,200. Master's in general, with some specialization.

Rochester, University of, Rochester 20, N. Y. Apply for admission to Dean, Graduate School. Tuition: \$28 per credit hour. Scholarships; no work; stipend, ex; first-year students eligible. Fellowships; no work; stipend, \$1,500-2,800. Assistantships; 15 hours' work; stipend, \$1,500-2,000 ex if support is needed. USPHS stipends. N. Y. S. Dept. of Mental Hygiene clinical traineeships. Other part-time positions available. Apply by March 15. Doctoral and postdoctoral in experimental, social and personality, child, clinical, tests and measurements, industrial, human engineering. PhD in clinical APA-approved.

Roosevelt University, Chicago 5, Ill. Apply for admission to Director of Admissions by Aug. 1. Tuition: \$21 per sem. hr. Full tuition scholarships. Apply to Dean, Graduate School by April 1. Psychometric internship in University Counseling and Testing Service. Apply to that office by May 1. For departmental assistantships, apply to dept. chairman. Master's with core program in general-experimental or clinical.

Rutgers, the State University, New Brunswick, N. J. Tuition: \$13.50 per credit hour or \$200 per semester.

Graduate School: Apply for admission to University Admissions Office. Assistantships; 15 hours per week maximum; stipend, \$1,920 ex. Apply to Chairman, Graduate Committee for Psychology. Tuition scholar-

ships; apply to Dean of the Graduate School. Master's and doctoral in general-experimental and clinical.

School of Education: For admission and assistantships, apply to Director of Advanced Study, School of Education. Master and Doctor of Education in school psychology, measurement, and guidance.

Sacramento State College, Sacramento, Calif. Apply for admission to Admissions Officer by September 15. Tuition: \$64. Readerships and occasional part-time instructorships; apply to Dept. of Psych. Master's.

St. John's, University of, Jamaica 32, New York, N. Y. Apply for admission to Dean, Graduate School, by March 15. Tuition: \$750. No residence facilities. Scholarships. Fellowships; 6-9 hours' teaching; stipend, \$1,600-2,000. Assistantships; 12 hours' work; stipend, \$1,200-1,700. Master's doctoral in education, school.

St. Louis University, St. Louis 3, Mo. Apply for admission to Dean, Graduate School, before April 1. Tuition: \$20 per semester hour. Fellowships; 20 hours' work; stipend, \$2,000. Assistantships; 20 hours' work; stipend, \$1,600. Apply by April 1 to Dean, Graduate School. Master's in experimental, social, clinical.

San Diego State College, San Diego 15, Calif. Apply for admission to the Director of Admissions. Tuition: resident, \$22; nr, \$90 per semester. No stipends available. Part-time work available. Master's in psychology.

San Francisco State College, San Francisco, Calif. Apply to Graduate Coordinator in Psychology by March 15. Apply to (1) Office of Admissions and (2) Graduate Study Office by August 1. Tuition: resident, \$28.50; nr, \$108.50 per semester. Master's in all major fields of psychology; state credentials in psychometry, school psychology, and junior college teaching.

San Jose State College, San Jose, Calif. Apply for admission to Admission Office. Tuition: resident, \$44. Part-time assistantships; \$800-1,600. Master of Arts in general psychology and Master of Science in applied psychology.

Sarah Lawrence College, Bronxville 8, N. Y. Apply for admission to the Office of the Dean before May 1. Tuition: \$700. No scholarship funds available. Master's in child development and early childhood education.

Saskatchewan, University of, Saskatoon, Sask., Canada. Apply for admission by Sept. 1 on forms supplied by the Registrar. Tuition: \$175 for classes prescribed for the Master's Course. Scholarship; no work; stipend, \$800. Departmental readerships and assistant-

ships; 3-10 hours' work; stipend, \$100 to \$500. Apply by September 1 to head of the Dept. Master's in general, with some specialization.

Smith College, Northampton, Mass. Women only. Apply for admission to Executive Secretary to the Committee on Graduate Study. Tuition: \$700. Scholarships. Fellowships; no work; stipend, \$1,000 to \$1,650. Assistantships; 20 hours' work; stipend, \$1,650 ex. Master's.

South Carolina, University of, Columbia, S. C. Apply for admission to Dean, Graduate School, by September 1. Tuition: resident, \$80; nr, \$250. Fellowships; no work; stipend, \$300-600; apply by April 1 to Dean, Graduate School. Assistantship; stipend, \$1,000. Other part-time positions available. Apply by June 1. Master's in general and clinical.

South Dakota, University of, Vermillion, S. D. Apply for admission to Dean, Graduate School. Tuition: per semester, resident, \$75; nr, \$135. Assistantships; 12-15 hours' work; stipend, \$1,500-1,800. Research assistantships; 20 hours' work; 12 months; stipend, \$2,000-2,405. Apply to Head, Dept. of Psych., before April 15. Master's in experimental, clinical-counseling, developmental.

Southern California, University of, Los Angeles, Calif. Apply for admission to Head, Dept. of Psych., by March 15. Tuition: \$784. Scholarships; stipend, ex; 14 units per semester; apply to Graduate School before March 15. Assistantships; 15-20 hours' work; stipend, \$760-2,100; apply by March 15. USPHS stipends. Other part-time positions available. Master's in theoretical, business and industrial, psychological measurements. Doctoral in clinical, theoretical, business and industrial, psychological measurements. Postdoctoral in clinical. PhD in clinical APA-approved.

Southern Illinois University, Carbondale, Ill. Apply for admission to Dean of Graduate School and Chairman of Psychology Department. Tuition: r, \$164; nr, \$308. Fellowships; 10 hours' work; stipend, \$1,080-1,350 ex. USPHS stipends. Teaching assistants; 20 hours' work, \$1,620-2,160 ex. Research assistants; 10-20 hours' work, \$1,125-1,620 ex. Additional training appointments: clinical center, psychological clinic, counseling and testing; mental hospital; stipend, \$1,575-2,250. Master's and doctoral in clinical, counseling, industrial, school-community mental health.

Southern Methodist University, Dallas 5, Texas. Apply for admission to Dean, Graduate School. Tuition: \$500. Scholarships; 3 hours' work; stipend, \$500; apply to Dean, Graduate School. Fellowship; no work; stipend, \$1,500. Assistantships; 4 hours' work; stipend,

\$160. Master's in experimental, industrial, preclinical (counseling and psychometrics).

Springfield College, Springfield 9, Mass. Apply for admission to Director of Graduate Study by June 15. Tuition: \$25 per semester hour. Scholarships depend upon need and qualification of student. Assistantships; 12 hours' work; stipend, \$450; apply to Director of Graduate Study by May 15. Master's in counseling and personnel administration.

Stanford University, Stanford, Calif. Apply for admission to Admissions Office by June 1. Tuition: \$1,005. Graduate scholarships and fellowships available through the Graduate Division. Assistantships; 20 hours' work; stipend, \$2,184; apply by March 15. USPHS stipends. Other positions occasionally available. Doctoral and postdoctoral in developmental, clinical, perception and learning, physiological and comparative, psychometrics, social and personality, counseling, industrial, educational. PhD in clinical and counseling APA-approved.

Swarthmore College, Swarthmore, Pa. Apply for admission to Hans Wallach, Chairman, Dept. of Psych., by March 15. Tuition: \$800. Assistantships; 12-20 hours' work; stipend, \$1,200 ex. Apply by March 15. Master's in experimental, social.

Syracuse University, Syracuse 10, N. Y. Apply for admission to Dean, Graduate School, at any time. Tuition: \$900, or \$30 per credit hr. Assistantships; 20 hours' work; stipend, \$1,400 for academic year, 6 cr. hrs. tuition ex per semester. Assistantships; 20-30 hours' work; stipend, \$1,608-2,700 for calendar year, 6 cr. hrs. tuition ex per semester. Apply by March 1 to Chairman, Psych. Dept. Master's unspecialized except for school psychology. Doctoral in clinical, general experimental, educational, developmental, social, measurement and statistics. PhD in clinical APA-approved.

Temple University, Philadelphia 22, Pa. Apply for admission for MA to Dean, College of Liberal Arts and Sciences; for PhD to Chairman, Dept. of Psych., and for MED and DED to Dean, Teachers College, by April 1. Tuition: \$20 per semester hour. Assistantships; half-time; apply by April 1. Master's and doctoral in special education, general and social, experimental, clinical, counseling and guidance, industrial, reading. Postdoctoral in clinical and counseling. PhD in clinical and counseling APA-approved.

Tennessee, University of, Knoxville, Tenn. Apply for admission to Dean, Graduate School, by April 1. Tuition: resident, \$225; nr, \$525. Assistantships; 11 hours' work; stipend, \$1,200-1,500 ex; apply to Dean, Graduate School, by March 15. Other positions avail-

able. Master's and doctoral in general, industrial, clinical. Postdoctoral in clinical. PhD in clinical APA-approved.

Texas Christian University, Fort Worth, Texas. Apply for admission to Dean, Graduate School, by August 15. Tuition: \$390. Scholarship; no work; stipend, \$450. Apply by June 1. Assistantships; 12 hours' work; stipend, \$500. Apply by August 1. Master's in clinical, experimental, counseling and guidance.

Texas State College, North, Denton, Texas. Apply for admission to Chairman, Dept. of Psych., by April 1. Tuition: resident, \$138; nr, equal rate reciprocity with other state universities. Fellowships; teach one course; stipend, \$900. Assistantships; stipend, approx. \$300. Apply by April 1. Master's in preclinical, guidance-counseling, and personality.

Texas Technological College, Lubbock, Texas. Apply for admission to Head, Dept. of Psych., by May 1. Tuition: resident, \$100; nr, \$400. Fellowship; 10 hours' work; stipend, \$1,000. Research assistantships, comparative and experimental; 15 hours' work; stipend, \$500-1,500. Assistantships, counseling; 15 hours' work; stipend, \$810. Traineeships in rehabilitation counseling; no work; stipend, \$1,800. Master's and doctoral in counseling and guidance, experimental, physiological, comparative, general theoretical.

Texas, University of, Austin, Texas.

Department of Psychology: Apply for admission to Secretary, Department of Psychology. Tuition: resident, \$50 per semester; nr, \$200 per semester. Scholarships; no work; stipend, \$1,800-2,400; apply by March 1 to Dean, Graduate School. Teaching assistantships; 20 hours' work; stipend, \$1,600-2,000. Apply to Secretary, Dept. of Psych. Scholarships exempting students from tuition. Apply at time of registration to Dean, Graduate School. USPHS stipends. Research assistantships and employment opportunities. Master's and doctoral in experimental, clinical, developmental, counseling (combined with educational), physiological and social. Postdoctoral in physiological. PhD in clinical and counseling APA-approved.

Department of Educational Psychology: Apply to Dean of Admissions two months before the semester or summer term. Tuition: resident, \$100; nr, \$400. Scholarships and fellowships; no work; stipend, \$600-1,200; apply by March 1 to Dean, Graduate School. Teaching assistantships; 20 hours' work; stipend, \$1,600-2,000. Research assistantships; 16-24 hours' work; stipend, \$900-1,800. Assistantships; 12 hours' work; stipend, \$345.60. Apply to Chairman, Department of Educational Psychology. For nr tuition scholarships apply at time of registration to Dean,

Graduate School. USPHS stipends. Additional part-time psychological and educational positions available on campus, on contract research projects, and in Austin upon recommendation of department. Master's and doctoral in counseling, guidance and personnel work, human development and behavior, psychometrics, audiovisual, special education. PhD in counseling (with Dept. of Psych.) APA-approved.

Toledo, University of, Toledo, Ohio. Apply for admission to Director of Graduate Study by August 1. Tuition: Toledo resident, \$250 per semester; nr, \$330 per semester. Clerk psychometrists and a cadet counselor; 20 hours' work; stipend, \$1,400 ex. Master's in general, industrial, counseling, and preclinical.

Toronto, University of, Toronto, Ontario, Canada. Apply for admission to Secretary, School of Graduate Studies, by March 1. Tuition: \$310. Instructorship; 15 hours' work; stipend, \$1,500. Teaching fellowships; stipend, \$600 for eight months. Assistants, 9-hour limit; stipend, up to \$900. Apply by April 1. Master's and doctoral in experimental, child development, social and personality, clinical, tests and measurement, industrial.

Tufts University, Medford 55, Mass. Apply for admission to Dean, Graduate School, by April 1. Tuition: \$900 plus \$10 registration fee. Scholarships; no work; stipend, ex. Fellowship in aviation psych.; stipend, \$1,500 ex. Assistantships; 20 hours' work; stipend, \$1,440-1,800 ex. Other part-time positions available. Apply by April 1 to Dean, Graduate School. Master's in general or applied experimental. Doctoral and postdoctoral in general experimental.

Tulane University of Louisiana, New Orleans, La. Apply for admission to Dean, Graduate School, by June 1. Tuition: \$650. Scholarships; no work; stipend, \$400-1,000. Fellowships; no work; stipend, \$1,500; first-year students not eligible. Assistantships; 12 hours' work; stipend, \$1,200 ex. Apply by February 1 to Dean, Graduate School. Master's and doctoral in experimental. Postdoctoral in learning and motivation.

Tulsa, University of, Tulsa, Okla. Apply for admission to Dean, Graduate School. Tuition: \$450 for 2 semesters. Assistantships; 12 hours' work; stipend, \$1,000 for 8½ months. Master's in general, industrial, preclinical.

Utah State University, Logan, Utah. Apply for admission to Dean, Graduate School, by July. Tuition and fees: resident, \$177; nr, \$177. Assistantships; 10 hours' work; stipend, \$562.50. Apply by July. Master's in general, clinical, counseling.

Utah, University of, Salt Lake City, Utah. Apply for admission to Dean, Graduate School, or Chairman, Dept. of Psych., by June 1. Tuition: resident, \$275 approx.; nr, \$450 approx. Assistantships; hours of work vary; stipend, \$450-750 ex out-of-state fee; apply by August 1. Research appointments available. Master's in industrial, developmental, general and experimental, physiological and comparative. Doctoral in clinical, counseling, industrial, general and experimental, physiological and comparative. Postdoctoral in clinical. PhD in clinical and counseling APA-approved.

Vanderbilt, University, Nashville, Tenn. Apply for admission to Dean, Graduate School, by February 15. Tuition: \$315 per semester. Scholarships; no work; stipend, \$1,000-2,400. Fellowships; 10-20 hours' work; stipend, \$1,000-1,800. Assistantships; 10-20 hours' work; stipend, \$1,000-1,800. USPHS and OVR stipends. Other positions available. Master's in industrial, clinical, counseling. Doctoral in clinical, industrial, physiological, general-experimental. Postdoctoral in clinical and experimental. PhD in clinical APA-approved.

Vassar College, Poughkeepsie, N. Y. Apply for admission to Dean before March 1. Tuition: \$525. Fellowships; stipend, \$1,500 ex. Assistantships; 30 hours' work; stipend, \$2,200 ex. Women only. Apply by March 1 to Dean. Master's in general and experimental, personality, social.

Vermont, University of, Burlington, Vt. Apply for admission to Dean of the Graduate School. Fellowship; stipend, \$400 ex. Assistantship; stipend, ex. Master's in experimental, social, tests.

Virginia, University of, Charlottesville, Va. Apply for admission to Dean, Graduate School, by June 1. Tuition and fees: resident \$304; nr, \$534. Fellowships; no work; stipend, \$750-1,200 ex; apply by March 1 to Dean, Graduate School. Assistantships; 6-12 hours' work; stipend, \$700-1,200; apply by June 1. Full-time summer research assistantships available. Master's, doctoral and postdoctoral in experimental.

Washington, The State College of, Pullman, Wash. Apply for admission to Dean, Graduate School, by March 15. Tuition: resident, \$86; nr, \$156. Assistantships; 20 hours' work; stipend, \$1,800 ex nr. Fellowship; no work; stipend, \$2,400. Other part-time positions available. Apply by March 15. Master's and doctoral in general-experimental, comparative, clinical. PhD in clinical APA-approved.

Washington University, St. Louis, Mo. Apply for admission to Dept. of Psych. by February 15. Tuition: \$750. Scholarships: no work, stipend, \$500-2,200.

Fellowships: no work, stipend, \$500-1,500. Apply to Dean, Graduate School by March 1. Departmental assistantships: 19 hours' work; stipend \$1,570-1,830 ex; apply by March 1. USPHS stipends. Fellowships in program on the aging process; grant of \$2,400 per year for four years. Half-time assistantships in industrial; stipend, \$2,000-3,000. Part-time research assistantships in learning, psychoacoustics, social; stipend, \$1,000-2,000. Other part-time positions available. Master's without specialization. Doctoral in general-experimental, including comparative-physiological, clinical process of aging. PhD in clinical APA-approved.

Washington, University of, Seattle 5, Wash. Apply for admission to Graduate School and Dept. of Psych. Tuition: resident, \$183; nr, \$408. Fellowships; 20 hours' work; stipend, \$1,575 ex; apply by April 1. Assistantships; 10 hours' work; stipend, \$450; apply by April 1. USPHS stipends. Other part-time positions available. Master's, doctoral, and postdoctoral in child and developmental, experimental, social and personality, clinical, tests and measurements. PhD in clinical APA-approved.

Wayne State University, Detroit 2, Michigan. Tuition: resident, \$332; nr, \$662. Apply for admission to Dean, Graduate School, by May 1.

College of Liberal Arts: Apply by March 1 to Dr. Ross Stagner, Chairman, Psych. Dept. Assistantships; hours of work vary; stipend, 1,000-2,200 ex. Fellowships; teaching; stipend, \$2,200-2,500 ex. Master's, doctoral, and postdoctoral in general-theoretical, clinical, industrial, social.

College of Education: Assistantships; 20 hours per week; stipend, \$1,900-2,500 ex. Apply by March 1 to Dr. John C. Sullivan, College of Education. Master's in clinical, educational, school. Doctoral in educational, school.

Wellesley College, Wellesley, Mass. Apply for admission to Dean of Graduate Instruction by March 1. Tuition: \$700. Assistantships; 20 hours' work; stipend, \$1,800 ex. Women only. Master's in physiological, differential, learning, child, social, personality.

Wesleyan University, Middletown, Conn. Apply for admission to Dean, Graduate School, by May 1. Tuition: \$650. Assistantships; 20 hours' work; stipend, \$1,825. Other part-time positions available. Men preferred. Apply by May 1. Master's in experimental (including physiological and comparative), social, personality, and development.

Western Ontario, University of, London, Ont., Canada. Apply for admission to Dean of Graduate Studies. Tuition: \$260 per annum. Assistantships; stipend, \$300-1,100. Apply by April 1. Master's and

doctoral in clinical, general-experimental, developmental, industrial, social.

Western Reserve University, Cleveland 6, Ohio. Apply for admission to Admission Office, well in advance of admission dates. Tuition: \$28 per credit hour. Scholarships; no work; stipend, \$100 to ex; apply to Admission Office by March 1. Assistantships; 15 hours' work; stipend, \$1,000-1,200 ex 9 hours. Research assistantships in experimental, comparative, and general; assistantships in industrial. USPHS stipends. Master's in general, industrial. Doctoral in general-experimental, physiological, industrial, clinical. Postdoctoral in experimental and clinical. PhD in clinical APA-approved.

West Virginia University, Morgantown, W. Va. Apply to Registrar and to Head, Dept. of Psych., by April 1. Tuition: resident, \$55 per semester; nr, \$220. Assistantships; 15 hours' work; \$1,500 ex. Full-time externship in child guidance clinic under psychiatric team. Traineeships in rehabilitation counseling. Comprehensive master's degree and interdepartmental MA in rehabilitation counseling. PhD in general-experimental and clinical.

Wichita, University of, Wichita, Kansas. Apply for admission to Dean, Graduate School. Tuition: up to \$300 per year. Fellowships: up to 20 hours' work; stipend, \$1,500 ex. Apply by February 15. Master's in general, theoretical, experimental, comparative, and school.

William and Mary, College of, Williamsburg, Va. Apply for admission to Head, Dept. of Psych., by May 15. Tuition: resident, \$60.25; nr, \$132 per semester. Half-time internship in abnormal psychology at Eastern State Hospital required; stipend, \$115 per month. Master's in general-experimental.

Wisconsin, University of, Madison, Wisconsin. Apply for admission to Dean, Graduate School. Tuition per year: resident, \$200; nr, \$550. Scholarships; no work; stipend, ex nr. Assistantships; 20 hours' work; stipend, \$1,920 per annum, ex nr. Apply by February 15. USPHS stipends. Master's. Doctoral in clinical, comparative, industrial, learning, personality, physiological, sensory (vision and audition), social. Postdoctoral in comparative, experimental, physiological, and clinical. PhD in clinical APA-approved.

Department of Education: resident, \$200; nr, \$550 (but the \$350 nr portion is waived automatically for all holders of scholarships, fellowships, and assistantships. Scholarships; no work, \$1,000. Fellowships; no work; \$1,500-2,160. Instructional and research assistantships; 15-20 hours' work; \$1,100-3,000. Dormitory counseling for room and board; apply to Director

of Residence Halls. Request application forms from Chairman, Fellowship Committee, Department of Education; must be returned by February 15 for scholarships and fellowships. Master's and doctoral in educational, guidance, school, and measurement and statistics.

Wyoming, University of, Laramie, Wyo. Apply for admission to Registrar and Director of Admissions one month before registration. Tuition: resident, \$205; nr, \$415. Scholarships; no work; stipend, ex. Assistantships; 15 to 18 hours' work; stipend, \$999-1,500 ex for resident, \$156; nr, \$366. Apply by February 1 to Dean, Graduate School. Master's in experimental, comparative, differential.

Yale University, New Haven, Conn. Apply for admission to Dean, Graduate School, by February 15. Tuition: \$1,000. Fellowships; no work; stipend, \$500-2,400. Assistantships; 20 hours' work maximum; stipend, to \$2,200. Apply to Graduate School by January 31. USPHS stipends. Doctoral in experimental, personality and social, clinical, child development. PhD in clinical APA-approved.

Yeshiva University, 110 W. 57th St., New York 19, N. Y. Apply for admission to Director of Admissions, Graduate School, by Feb. 1 or Sept. 1. Tuition: \$30 per point. Assistantships; stipend, \$300 ex per semester. Doctoral in educational, school.

COMMITTEE ON RELATIONS WITH PSYCHIATRY

1958 ANNUAL REPORT

YOUR committee first presents its recommendations in condensed form; these are followed where necessary by suggestions for implementing them. Finally, we present some of the special considerations and the rationale leading to our recommendations.

The Committee on Relations with Psychiatry recommends the adoption of the following statements as official APA policy:¹

1. Because all psychologists have an interest in the public image of psychology, and because state legislation which may define the practice and qualifications of psychologists inevitably shapes this public image, state associations contemplating new legislation or revisions of existing legislation are strongly urged to consult with the Central Office and with the national committee concerned with legislative principles, to the end that the impact and effect of alternative forms and provisions in state laws may be clearly understood at the state level.

In order to implement such collaborative planning in the interests of better legislation, it is directed that the Executive Secretary not only designate a member of the Central Office staff to serve as legislative consultant but also is authorized to send appropriate national committee members to the states for consultation when legislative issues arise. Such consultation should take into consideration, not only the most desirable forms of legislation, but also the fundamental question of the need for legislation in the particular evolutionary stage of development in the state involved.

2. The APA clearly states its intent to attempt to defeat amendments to basic science or medical practice acts that would restrict the role and practice of psychology. We have shown that such veto power can be mobilized; and, while it may not be a constructive step in interprofessional relations, it may be a necessary defensive maneuver.

3. With our present state laws as samples, the APA will undertake in the near future a study of

the effects of these laws on the social control and public image of psychology. The assumptions underlying legislation are manifold: the elimination of quacks, the improvement of training and qualifications, the improvement of employment opportunities. However, these are still only assumptions, subject to some testing and verification or denial.

4. The APA goes on record as favoring continuing a vigorous program of implementation and enforcement of our present ethical code.

5. The APA goes on record as being ready where appropriate to join in the legal defense, and costs thereof, of any member engaged in professional practice who is charged with the practice of medicine in terms of psychotherapy. It is to be understood, in this connection, that one criterion of appropriateness is professional practice that is in conformity with the letter and spirit of our ethical code.

6. The APA goes on record in favor of allowing some present state laws to be repealed, rather than accepting amendments to them which would result in restricting or narrowly defining the role of psychology, or which would result in the identification as psychologists of individuals not properly qualified.

7. The APA indicates to its constituency and to the state societies its willingness to share with the states on an equitable basis the costs of such political and legal activities, where the state resources make such help necessary, and provided the state's legislative actions are consonant with the policies of the national association. Such costs clearly include authority, in some degree, for the Central Office to spend funds for investigation trips, field visits, and necessary legal consultations. If we are to act as a profession, not only idealistically but also with political effectiveness, we must be prepared to pay the price.

The implementation of the policies set forth in Paragraphs 1, 2, 5, 6, and 7 above originates in the Central Office of the APA, with whatever consultation seems appropriate to the Executive Secretary

¹ Adopted as official APA policy by the Council of Representatives at its September 1958 Annual Business Meeting in Washington, D. C.

and his staff. The study contemplated in Paragraph 3 above should be undertaken by the Committee on Relations with Psychiatry, under the aegis of the Board of Professional Affairs. The policy proposed in Paragraph 4 above will be guided by the recommendations of a committee on ethical considerations in private practice that is in process of being created under the Board of Professional Affairs.

In support of this set of recommendations, we suggest that the situation with respect to legislation for psychology has reached a point throughout the country that requires a careful re-evaluation of our position within the American Psychological Association. One fact is a matter of official record. The American Psychiatric Association, during 1957-58, rescinded its agreement regarding the acceptance of certification as the desirable and appropriate form of state legislation for psychology. In so doing, it has reverted to and reasserted an earlier official position that is ambiguous with respect to legislation for professions which it regards as ancillary to medicine, but which is completely unambiguous on the point that all psychotherapy is solely within the domain of the medically trained person.

This action, together with other problems in various states, has led the Committee on Relations with Psychiatry to be convinced that:

1. The present position of the American Psychiatric Association, reflecting also the position of the American Medical Association, may well be used at the state level to block further passage of laws in states not now having legislation.

2. Alternatively, this present position may well force psychologists in the states to write laws that restrict or define the practice of psychology in potentially dangerous ways.

3. The present position regarding psychotherapy may well be the basis for amendments and modifications of existing basic science and medical practice acts in many states, to the further end of restricting the practice of psychology.

4. The establishment of legislation for psychology within a particular state is not necessarily the end of legislative struggle and the beginning of an era of peace: medical practice acts and basic science acts can still be amended; direct attacks on existing legislation can still be made.

One other aspect of this problem deserves comment. Our own national policy on forms of legis-

lation stresses mandatory certification as the most desirable form at the present time. But, even within such a definition, the political and local considerations within a particular state have given rise to widely varying laws, wherein the public image of psychology is not clearly or commonly defined.

We now have competent legal opinion, which has been transmitted to the Board of Directors in a memorandum dated January 15, 1958, that in principle certification and licensing legislation are clearly different, yet in practice the distinctions are not so easily seen.

With all due respect to states' rights and states' problems in legislative activity, psychology also has a national stake in how a psychologist is defined, what he does, and how he practices. It is possible that the wide variance now found in state laws adversely affects the image we wish to create.

In our professional evolution over the past decade, we have done many important things:

1. We have clearly defined a code of ethics.
2. We have stated our ways of working vis-à-vis other professions.
3. We have formulated broad policies on social control, of which legislation is only one phase.
4. We have stated the right of our members to engage in private practice, under proper conditions of training, experience, and interprofessional relations.
5. We have created the American Board of Examiners in Professional Psychology and the American Board for Psychological Services.
6. We have more closely defined training and engaged in accreditation.

These are all idealistic and proper steps toward professional stature. But the task of becoming a profession also may involve court tests of legislation, the hard and dirty jobs of enforcing ethical codes, fighting off attacks from other professional associations, creating coalitions to protect our place in the sun. We must, in short, give up a little of our individual freedoms and wishes in order to maintain and strengthen the power of the newly professionalized group.

Furthermore, there is an historical orderliness to becoming a profession that we have in some degree violated: for example, before we rigidly controlled training and intake of students, and before we attained common legislation defining psychology, we have created specialty boards. Other examples

could be given, drawn from the sociology and history of professional movements.

It is time, we think, to consider ways to establish a more easily defended position in our relations with medicine and psychiatry. Ranged against us in many states is the solid phalanx of organized, *political* medicine, although we have many friends among individual practitioners. Regardless of our relations with psychiatry and other medical specialties at the grass roots level, in the last analysis, medicine as a political entity usually falls in with the party line whenever legislation is involved. But two things must be remembered: a stalemate may be better than lost skirmishes and continuing legal engagements in many states; organized medicine itself is not fundamentally anxious to test its powers in *court* decisions, as distinct from legislative acts.

We are presently too lightly armored and equipped to carry on constant battles with organized medicine; these battles are excessively expensive in terms of time, money, political energy, and dubious public relations side-effects.

It is both timely and fortunate that APA has so recently created the Board of Professional Affairs. The Committee on Relations with Psychiatry gladly depends on the new board to recommend constructive steps in our professional evolution. These might include: strengthening of our relations with other professions and other medical specialties, clearer definition of the role and place of state societies in APA, the nature and range of public relations activities designed for long-run improvement of our status as a profession, forms of legislation not tied to a medical model.

For many years, we have worked to improve relations with psychiatry. By virtue of forces essentially beyond our control, our efforts have not been eminently successful. But in the area of political reality, if we are now stalemated, then so is psychiatry. It is highly probable that we shall con-

tinue in psychology to do exactly as we have done in the past: private practice will continue to flourish; psychologists will achieve stature in community mental health and school programs by virtue of their demonstrable effectiveness as individuals and as scholars; progress in ethical enforcement can be made unilaterally by our own organization; our role as scientists, already flourishing, will go on unabated; improved public relations will emerge over time.

Despite present rebuffs, we shall continue to cooperate with psychiatrists and other physicians in every possible way, through research, through teaching, through clinical services, and through community activities; and we look forward to an ultimate restoration of sound channels of official communication with all professional bodies sharing an interest in mental health.

The advantage of adopting the policies set forth above is based upon the assumption that such policy statements will enable psychology to maneuver in its own best interests, without being increasingly on the defensive in state after state. In the long run, the Committee on Relations with Psychiatry is convinced that psychology's professional status will be clearly and cleanly won. In the meantime, since organized psychiatry and to some extent organized medicine have chosen to turn aside from a pattern of interprofessional relations, we believe that our policy proposals make compellingly clear our plans to proceed unilaterally and independently with our own professional development.

COMMITTEE ON RELATIONS WITH PSYCHIATRY

STUART W. COOK
JOHN G. DARLEY, *Chairman*
CARLYLE JACOBSEN
GEORGE KELLY
ROGER W. RUSSELL, *ex officio*
NEVITT SANFORD
MILTON WEXLER

AMERICAN BOARD OF EXAMINERS IN PROFESSIONAL PSYCHOLOGY

1958 ANNUAL REPORT

THE American Board of Examiners in Professional Psychology (ABEPP) has now completed its eleventh year of service to American psychology and presents its eleventh Annual Report to the American Psychological Association and to the membership of the Canadian Psychological Association.¹

Candidacies Received. Since its incorporation on April 23, 1947, 2,132 candidates have applied for the diploma of ABEPP. 575 applications were submitted under provisions of the By-Laws which require that the candidate hold the PhD degree, present five years of acceptable qualifying experience, and perform satisfactorily on both written and oral examinations. 1,557 applications were received under a "grandfather" provision which terminated December 31, 1949.

Candidacies Received Under the Provision of Mandatory Examination. To date, 575 candidacies have been received under the provision of mandatory examination. The chronological order in which these candidacies were received is as follows: 1949, 68; 1950, 23; 1951, 22; 1952, 8; 1953, 49; 1954, 80; 1955, 84; 1956, 57; 1957, 90; 1958, 94. Table 1 gives a summary of ABEPP actions and indicates the status of these candidacies.

To date, 431 candidates have taken the written examination. 359 (83%) passed the written examination on the first attempt. Of the 72 who failed on the first attempt: 19 passed on a second examination, 38 are awaiting re-examination, 8 were terminated for failure to appear for re-examination, and 7 failed on a second attempt.

Of the 378 who passed the written examination: 371 have taken the oral examination, 3 candidacies were terminated for failure to appear for oral examination, 4 candidates are awaiting oral examination. Of the 371 taking the oral examination, 76 are awaiting evaluation by ABEPP. Of the 295 which have been evaluated: 190 (64%) passed on

¹ With reference to publication of historical and legal information concerning the work of ABEPP, see similar footnotes in previous annual reports. For announcements since the 1957 Annual Report, see *Amer. Psychologist*, 1957, 12, 540, 592, 620-622, 663, 763; 1958, 13, 188, 252, 663-664.

the first attempt, and 105 failed on the first attempt.

Of the 105 who did not pass on the first attempt: 46 have qualified on second examination, 27 failed to qualify on second examination, 10 have re-examination pending, 16 re-examinees are awaiting evaluation, and 6 candidacies have been terminated for failure to appear for re-examination.

In summary, 80% of candidates taking the oral examinations pass on the first and the second attempts.

Candidacies Received from Senior Members of the Profession. A total of 1,557 candidates applied

TABLE 1

SUMMARY OF THE STATUS OF CANDIDACIES RECEIVED UNDER PROVISION OF MANDATORY EXAMINATION	
Diplomas awarded to members of the American Psychological Association	234
Diplomas awarded to members of the Canadian Psychological Association	2
Candidacies in Process	259
Cases not yet reviewed	89
Cases presenting insufficient experience	5
Admitted to written examination; examination pending	21
Written examination passed; oral examination pending	4
Written examination failed; re-examination pending	38
Oral examination failed; re-examination pending	10
Oral examination completed in 1958; not yet evaluated by ABEPP	92
Candidacies Terminated	80
Candidacies rejected	7
Failure to continue candidacy toward meeting requirements	10
Failure to appear for written examination (two invitations)	12
Failure to appear for written re-examination within five years	8
Failure to appear for oral re-examination within five years	6
Failure to appear for oral examination	3
Written examination failed twice	7
Oral examination failed twice	27
Total	575

TABLE 2
DISTRIBUTIONS OF DIPLOMATES ACCORDING TO
SPECIALIZATION AND SEX

Candidates Qualifying Under Provision of Mandatory Examination:

	Men	Women	Total
Clinical	174	27	201
Counseling	21	1	22
Industrial	12	1	13
Total	207	29	236

Senior Members of the Profession:

	Men	Women	Total
Clinical	378	340	718
Counseling	172	65	237
Industrial	154	6	160
Total	704	411	1,115

for the diploma under the "grandfather" provision. To date: 1,115 awards have been made to senior members of the profession, 434 candidacies have been terminated, and 8 are in the process of examination.

Classification of Diplomates by Specialty and Sex. Table 2 gives distributions of ABEPP Diplomates according to field of specialization and sex.

Written Examinations. ABEPP's written examination presently consists of two sections. One half day is given to a professional objective examination, and a second half day to essay examination. All responses to the essay questions on the examination are evaluated by Diplomates of ABEPP in the appropriate specialties. 68 Diplomates participated in the evaluation of essay examinations in the fall of 1957. Each answer to a given question was read and evaluated independently by 4 Diplomates. In all cases, at least 8 Diplomates in the appropriate specialties participated in the evaluation of the candidate's total performance. ABEPP has a continuing annual revision of its written examinations. Diplomates are invited to participate in this attempt to maintain a written examination that is appropriate for professional psychologists with a minimum of five years of acceptable professional experience.

Final date each year for making application for admission to examination is May 1.

Oral Examinations. In the spring and summer

of 1958, 94 candidates appeared for oral examination at the following centers: New York City, Boston, Detroit, Chicago, St. Louis, San Francisco, and Los Angeles.

133 Diplomates served on ABEPP's examining committees. A present or former member of ABEPP was chairman of each examining committee. ABEPP acknowledges with appreciation the services of the following former members who served as Chairmen in 1958: Stanley G. Estes, George A. Kelly, Jean Macfarlane, Donald G. Marquis, Harold C. Taylor, David Wechsler, and C. Gilbert Wrenn.

Information on Procedures for Candidacy. ABEPP has prepared a statement entitled *Information for Prospective Candidates*. This pamphlet gives specific information on requirements for candidacy, fields of certification, the nature of acceptable qualifying experience, evaluative procedures (including written and oral examination), and policies governing these examinations. A copy of this pamphlet may be obtained from the ABEPP Executive Office.

ABEPP Officers. Present officers are: President, Fillmore H. Sanford; Vice-President, Austin B. Wood; and Secretary-Treasurer, Noble H. Kelley. On October 1, 1957, Edward S. Bordin, Edwin R. Henry, and Paul E. Meehl were elected members of ABEPP to replace Stanley G. Estes, Harold C. Taylor, and C. Gilbert Wrenn.

Inquiries for information on the work of ABEPP and concerning procedures for candidacy should be addressed to the Secretary-Treasurer: Noble H. Kelley; Department of Psychology, Southern Illinois University; Carbondale, Illinois.

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July 31, 1958

Convention Note

TO THOSE WHO SERVED:

During the 1958 Annual Business Meeting, the APA Council of Representatives "expressed its great appreciation to Sherman Ross and to his many colleagues on the Local Arrangements Committee for the remarkable efficiency and effectiveness with which the convention was organized." Further, Council directed "that a statement listing the appropriate names of those who contributed to the local arrangements be prepared and published in the *American Psychologist*."

As APA relies heavily on volunteer assistance, it is indeed fortunate that its members readily accept such assignments and execute them with initiative and dispatch. The APA is also grateful to the VA trainees and other students who volunteered their much needed services during the course of the convention.

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The Deadline for receipt of abstracts and summaries of papers and symposia for the 1959 Annual Convention is March 15, 1959. Details will be in the "Call for Papers and Symposia" in the January issue.

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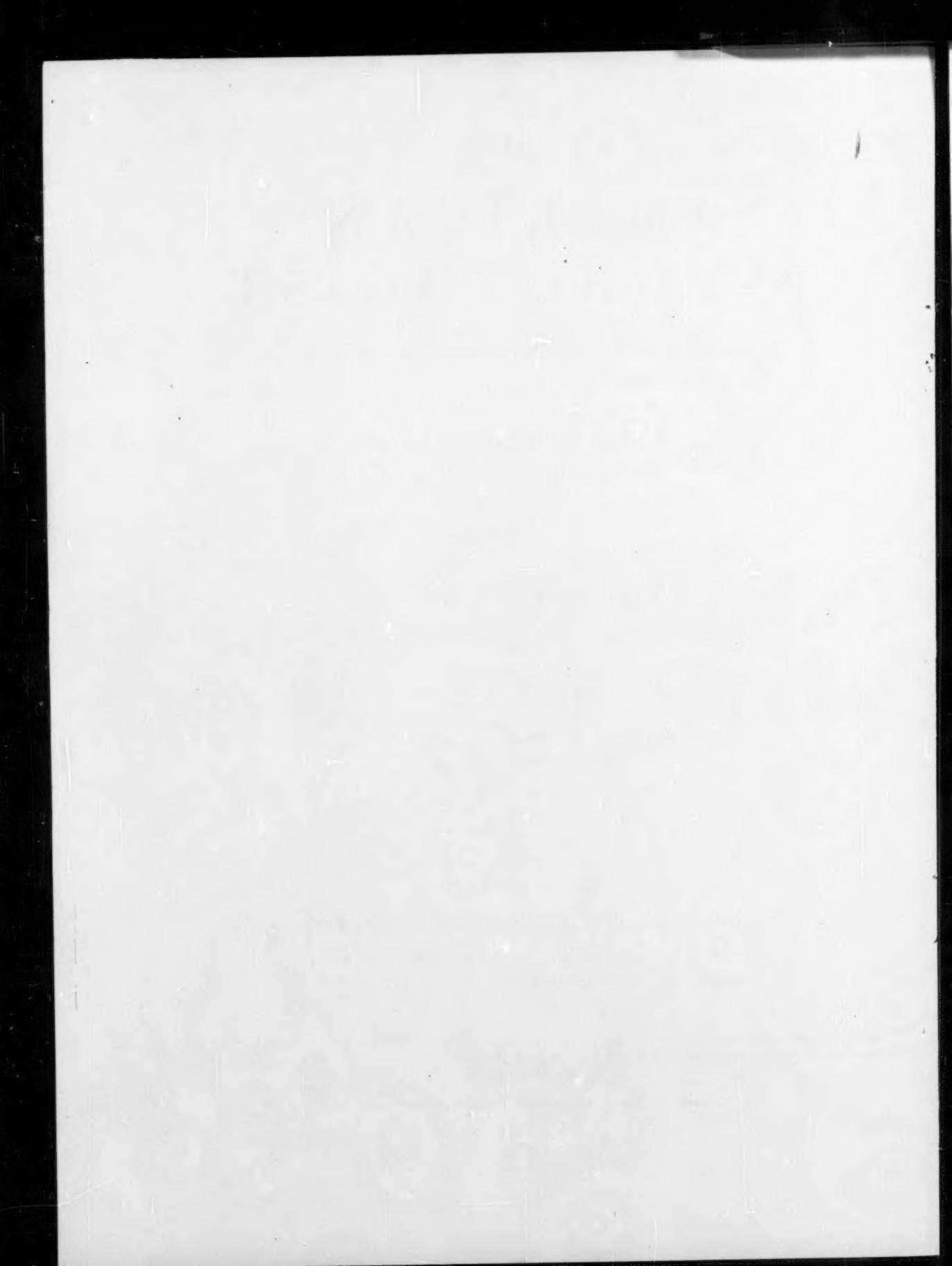
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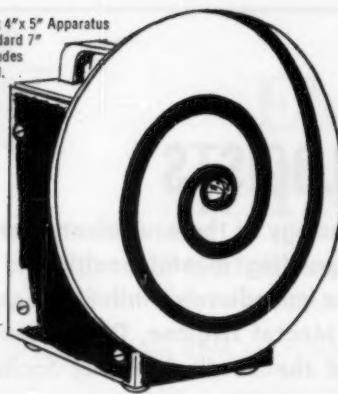
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